

APPLICATIONS FOR ADMISSION AND FOR TRANSFER

The Constitution provides that the Board of Direction shall elect or reject all applicants for *Admission* or for *Transfer*, and, in order to determine justly the eligibility of each candidate, the Board must depend largely upon the Membership for information.

This list is issued to members in every grade for the purpose of securing all such available information, and every member is urged to scan carefully each monthly list of candidates and to furnish the Board with data in regard to any applicant which may aid in determining his eligibility. It is the *Duty* of all *Members* to the *Profession* to assist the Board in this manner.

It is especially urged, in communications concerning applicants, that errors in the record be pointed out and a *Definite Recommendation as to the Proper Grading in Each Case* be given, inasmuch as the grading must be based upon the opinions of those who know the applicant personally, as well as upon the nature and extent of his professional experience. If facts exist derogatory to the personal character or to the professional reputation of an applicant, they should be promptly communicated to the Board. *Communications Relating to Applicants are considered by the Board as Strictly Confidential.*

The Board of Direction will not consider the applications herein contained from residents of North America until the expiration of thirty (30) days, and from non-residents of North America until the expiration of ninety (90) days from September 1, 1929.

MINIMUM REQUIREMENTS FOR ADMISSION

Grade	General Requirement	Age	Length of Active Practice	Responsible charge of work
Member	Qualified to design as well as to direct work	32 years	12 years*	5 years
Associate Member	Qualified to direct work	25 years	8 years*	1 year
Junior	Qualified for sub-professional work	18 years†	4 years*	
Affiliate	Qualified by scientific acquirements or practical experience to co-operate with engineers			
Fellow	Contributor to the permanent funds of the Society			

* Graduation from a school of engineering of recognized reputation is equivalent to 4 years active practice.

† Membership ceases at age of 32 unless transferred to higher grade.

LIST OF APPLICANTS.

Names and Addresses of Applicants for Admission and for Transfer on this Preliminary List,
Arranged Alphabetically.

Name.	Address.	Page.	Name.	Address.	Page.
ALLEN, EDWARD R.	Towson, Md.	241	McGANN, LEONARD A.	Everett, Pa.	249
APPEL, HARRY G.	Pittsburgh, Pa.	241	McKINLAY, GERALD.	Oakland, Cal.	249
APPEL, THEODORE B., JR.	Lancaster, Pa.	242	McLEAN, JOHN H.	San Francisco, Cal.	250
ARLT, ARTHUR W.	Greenville, Pa.	242	MANATT, ROWLAND R.	Houston, Tex.	250
BAKER, GEORGE H.	Springfield, Ill.	242	MARTIN, ANTONIO R.	San Leandro, Cal.	250
BARNETT, JOHN H.	Magee, Miss.	242	MARTIN, LLOYD L.	Detroit, Mich.	261
BELL, RAYMOND P.	Berryville, Va.	242	MASON, CLYDE P.	Knoxville, Tenn.	250
BENEDICT, PAUL C.	Jamalca Plain, Mass.	242	MAXWELL, DONALD H.	Chicago, Ill.	258
BERGER, JOHN S., JR.	New York City.	242	MILLER, HENRY S.	Frankfort, Ky.	251
BETZER, STANLEY I.	Bartlesville, Okla.	242	MINER, CHARLES J.	San Francisco, Cal.	251
BIEDERMAN, WILLIAM H.	Chicago, Ill.	242	MOHR, WILLIAM H.	Santa Monica, Cal.	251
BOWMAN, KEPLER S.	Indianapolis, Ind.	242	MONEY, CLARENCE A.	Chicago, Ill.	251
BRADY, SAMUEL A.	Little Rock, Ark.	243	NEER, DON M.	Austin, Tex.	251
CANALS, JOSE M.	San Juan, Porto Rico.	260	OELSCHLAGER, LESTER P.	Newport, Pa.	251
CARVER, WILLIAM M.	Burchard, Nebr.	243	PARRISH, WILLIAM C.	Rougemont, N. C.	251
CLEMENT, EDWARD D.	Charleston, S. C.	243	PEARCE, CECIL E.	Pasadena, Cal.	252
CODER, FREDERIC C.	Pittsburgh, Pa.	243	PECKWORTH, RALPH H.	Jersey City, N. J.	252
CORTESSE, ANTHONY	Ambridge, Pa.	244	PONTZ, HARRY A.	Fairview Village, Pa.	252
COTTON, CECIL R.	Pittsburgh, Pa.	244	RAY, ELBRIDGE W., JR.	Eureka, Cal.	252
CROFOOT, DAVID W.	Rockford, Ala.	244	REED, GEORGE L.	Atlanta, Ga.	252
CROOKS, JAMES G.	Philadelphia, Pa.	244	REISS, SIDNEY.	New York City.	252
CROY, ULRIC J.	London, England.	244	RICHARDSON, MATHIAS B.	Columbia, S. C.	252
CUNETTA, JOSEPH	Brooklyn, N. Y.	245	RICHART, FRANK E.	Urbana, Ill.	259
CUNNINGHAM, H. W.	Columbia, S. C.	245	ROUNDS, WILL A.	Fort Worth, Tex.	252
CUTLER, RALPH W.	Ambridge, Pa.	245	RUFF, CHARLES F.	New York City.	259
DAXON, JOHN E.	Bartlesville, Okla.	245	SALMEN, CLIFFORD R.	Sutton, Nebr.	252
DECKER, ELBERT L.	Wind River, Wyo.	245	SASSO, JOHN.	Brooklyn, N. Y.	252
ELLIS, MERLE W.	Oakland, Cal.	245	SCANDALE, JAMES S.	Plainfield, N. J.	253
FAHRENKROG, EUGENE H.	St. Louis, Mo.	245	SHAH, T. K. LINCOLN	Washington, D. C.	253
FARBELL, FREDERICK B.	Chicago, Ill.	245	SHOCKLEY, DELL G.	Washington, D. C.	253
FINNELL, WALTER J.	Tacoma, Wash.	246	SILVESTRI, JOSEPH P.	San Francisco, Cal.	253
GARTNER, ABRAHAM I.	New York City.	246	SLOVER, JOHN S.	Los Angeles, Cal.	253
GERDES, HENRY G.	Burlingame, Cal.	260	SMITH, MORTON S.	Lancaster, Pa.	253
GHERSAN, THOMAS A.	L. I. City, N. Y.	246	SMITH, OSCAR S.	Dayton, Ohio.	253
GILLON, FRANK P.	New Haven, Conn.	246	SORKIN, JOSEPH.	Lincoln, Nebr.	253
GONANO, LEZELLE	Pageton, W. Va.	246	SOUCEK, JAROMIR J.	Chicago, Ill.	253
GONZALEZ MARTINEZ, A.	San Juan, Porto Rico.	260	STEINMAN, JOHN J.	San Luis Obispo, Cal.	253
GRANT, HORACE	East Orange, N. J.	246	STOVER, HARVEY D.	Sacramento, Cal.	254
GRIFFITH, DALZELL M.	Johnstown, Pa.	246	STREICHER, WILLIAM H.	Niagara Falls, N. Y.	254
GROVE, GEORGE T.	Tucson, Ariz.	246	SUMMERS, FRANK C.	Washington, D. C.	254
GROVE, THOMAS A.	Cleveland, Ohio.	247	SYLVESTER, HAROLD M.	Washington, D. C.	254
HARRISON, MANUEL E. L.	San Salvador, Sal.	247	THAYER, WELLMAN P.	Chicago, Ill.	254
HIGH, EDWARD L.	Washington, D. C.	247	THOMPSON, WELLS N.	Tokyo, Japan.	254
HOHENSTEIN, CHARLES H.	Clifton, N. J.	247	THURBER, ARNOLD E.	Boston, N. Y.	255
HOLLER, ARTHUR F.	Lansdowne, Pa.	261	TOPPING, HOWARD F.	New York City.	262
HOROWITZ, HYMAN	New York City.	247	TRENHOLM, JOHN B.	Rocky Mount, N. C.	255
HORSCHEL, HAROLD F.	Sewickley, Pa.	247	TURNER, FRANCIS C.	Ft. Worth, Tex.	255
HOUTMAN, GUSTAVE D.	Media, Pa.	247	TUTAN, GEORGE W.	Atlanta, Ga.	255
ITANI, SALAHUDDIN	Ann Arbor, Mich.	247	VAN DEN BERG, C., JR.	Birmingham, Ala.	263
IVEY, WILLIAM T.	Kansas City, Mo.	247	VAN NESS, RUSSELL A.	Chicago, Ill.	259
JUDD, THOMAS H.	Chelan, Wash.	257	VAN REEKUM, VERNON J.	Chicago, Ill.	255
KAMMER, JOSEPH I.	Cincinnati, Ohio.	248	VAUGHAN, JAMES R.	Mt. Vernon, Ohio.	256
KARRER, WILFRED L.	Owyhee, Ore.	248	VENTRE, FRED V.	W. Philadelphia, Pa.	256
KEATTS, BERNARD D.	Chicago, Ill.	261	WADDINGTON, JOHN C.	Sheffield, England.	263
KIMBALL, WILLIAM P.	So. Lyndeboro, N. H.	248	WEISS, ALEXANDER.	New York City.	256
KOHL, CHARLES B.	Washington, D. C.	248	WEISS, ERNEST A.	Cleveland, Ohio.	256
KUMNICK, FRED W.	Sewickley, Pa.	248	WEST, PAUL H.	Washington, D. C.	256
LATIMER, MARION M.	Joliet, Ill.	248	WHITTAKER, HOWARD J.	Bloomfield, N. J.	256
LAURENT, RAYMOND J.	Lafayette, La.	248	WILDER, ROBERT M.	Boca Raton, Fla.	263
LEWIS, FRED J.	Nashville, Tenn.	258	WILKERSON, WILLIAM W.	Dallas, Tex.	256
LITTLE, GEORGE F.	Muskegon, Mich.	248	WILKES, ROLLA C.	Glendale, Cal.	257
McFARLAND, WM. G. L.	New York City.	249	WOLFF, WILLIAM R.	Elizabeth, N. J.	257

The fact that applicants give the names of certain members as references does not necessarily mean that such members endorse.

The number in the center above each record indicates the serial number of the applicant for the current year, and that at the left the district in which he resides.

The abbreviations in *Italics* represent, respectively, *TT*, Total Time; *SP*, Sub-Professional Work; *P*, Professional Work; *RC*, Responsible Charge; *D*, Design. The figure for Total Time is determined by adding one-half the time spent in Sub-Professional Work to the time spent in Professional Work. The figures showing the amount of time spent in Responsible Charge and on Design are the estimate of the Applicant. The allowance of four years for graduation or of one-half of a year for each academic year successfully completed in an engineering college without graduation is included in Total Time and Professional Work.

FOR ADMISSION

945

(5) ALLEN, EDWARD RUSSELL, West Joppa Road, Towson, Md. (Age 23. Born Towson, Md.) 1929 B. S. in Eng., Univ. of Md. *TT 4: P 4*.—June 1926 to Feb. 1927 Asst. Res. Engr., and Feb. 1927 to date Draftsman, J. E. Greiner Co., Baltimore, Md. *TT 0.1: SP 0.1*.—*TT 4.1: SP 0.1: P 4*. Refers to W. T. Ballard, J. E. Greiner, A. N. Johnson, J. W. Richardson, O. H. Schroedl, W. Willoughby.

946

(6) APPEL, HARRY GEORGE, 744 Lillian St., Pittsburgh, Pa. (Age 41. Born Pittsburgh, Pa.) Registered Prof. Engr., Commonwealth of Pennsylvania. 1912 B. S. in C. E., Carnegie Inst. Tech. (Night School).—July 1905 to Jan. 1906 Instrumentman and Draftsman with Lippincott & McNeill, Civ. and Min. Engrs., Pittsburgh, Pa., on surveys, etc. *TT 0.2: SP 0.2*.—Jan. to Oct. 1906 Tracer and Draftsman, Pittsburgh Coal Co. *TT 0.4: SP 0.4*.—Oct. 1906 to Oct. 1908 Draftsman with James Bryan, Pittsburgh, on construction of railway, Pittsburgh to Butler and New Castle, made right-of-way plans, plans for bridges and culverts and checked final estimates to contractors. *TT 1: SP 1*.—Oct. 1908 to May 1910 Draftsman and Chf. of Party with J. Toner Barr, Pittsburgh, made preliminary surveys and estimates for subway system for City and interurban lines, laid out several lot plans and improved streets. *TT 1.3: SP 0.3: P 1: RC 1: D 0.5*.—May 1910 to Feb. 1924 with City of Pittsburgh as follows: May 1910 to April 1913 Draftsman on plans for raising streets above flood level, for grading and paving streets and for letting sewer contracts, assisted on plans for Heths Run bridge, Manchester Bridge approaches, and Murray Ave. bridge; April 1913 to Sept. 1914 Structural Draftsman in charge of field corps, during construction of Bloomfield bridge (2 000 ft., steel), Murray Ave. bridge (225-ft. arch span) and Heths Run bridge (195-ft. concrete arch span); Sept. 1914 to July 1918 Designing Draftsman on construction and maintenance of bridges, designed Warrington Ave. bridge (60 ft. span skew arch) and West Carson St. bridge over Saw Mill Run, prepared contract plans for raising 535-ft. span of Manchester bridge and resetting rockers; July 1918 to June 1920 Asst. Engr. in charge of bridge construction; supervised construction of Warrington Ave. and West Carson St. bridges and raising of 1 069-ton shoe load of Manchester bridge; after June 1920 Asst. Engr. Designer, designed Beechwood Boulevard bridge in Schenley Park (279-ft. concrete arch span, \$230 000), approach to Sylvan Ave. bridge (\$35 000), Penn. Ave. bridge over P. R. R. (\$50 000), checked design of substructure and supervised construction of Viaduct No. 1, Boulevard of the Allies (\$500 000). *TT 12.4: SP 1.4: P 11: RC 11: D 4.8*.—Feb. 1924 to date Designer and Asst. Engr. of Design, Bureau of Bridges, Allegheny County, designed and supervised contract plans for bridge construction (approx. \$10 000 000) in Allegheny County, including plans for substructures and approaches of eleven bridges over Allegheny, Ohio and Monogahela Rivers. *TT 5.3: P 5.3: RC 5.3: D 5.3*.—*TT 20.7: SP 3.4*:

P 17.3: RC 17.3: D 10.6. Refers to N. F. Brown, V. R. Covell, S. Eckels, C. K. Harvey, A. A. Henderson, J. C. Jordan, P. W. Price, C. M. Reppert, N. S. Sprague, J. D. Stevenson, T. J. Wilkerson.

947

(4) **APPEL, THEODORE BURTON, Jr.**, 305 North Duke St., Lancaster, Pa. (Age 24. Born Lancaster, Pa.) 1926 B. S., Franklin & Marshall Coll. 1929 B. S., Mass. Inst. Tech. *TT 4: P 4.* Refers to C. B. Breed, C. L. Siebert, C. M. Spofford, W. L. Stevenson, C. H. Sutherland.

948

(6) **ARLT, ARTHUR WILLIAMSON**, 69 Shenango St., Greenville, Pa. (Age 24. Born New York City.) 1929 C. E., Rens. Pol. Inst. *TT 4: P 4.*—Sept. 1922 to Sept. 1924 and summer 1925 with W. E. Joyce Co., Kingston, N. Y., as Eng. Asst., on surveying, acting as Transitman, Levelman, Computer, and Topographical Draftsman, and (1925) Timekeeper and Checker, material checking, building layouts. *TT 1: SP 1.*—Summer 1928 Transitman, Erie R. R. Co., instrument work and drafting.—July 1929 to date Eng. Apprentice, Chicago Bridge & Iron Co., Greenville, Pa. *TT 0.1: SP 0.1.—TT 5.1: SP 1.1: P 4.* Refers to E. R. Cary, L. W. Clark, W. E. Joyce.

949

(8) **BAKER, GEORGE HUBERT**, 704 Fayette Ave., Springfield, Ill. (Age 40. Born Warrans, Wis.) 1914 B. S., Univ. of Wis. *TT 4: P 4.*—Aug. to Nov. 1914 and April 1915 to date (except Sept.—Dec. 1918 Engr., Atlas Portland Cement Co., on quarry and mine surveying) with Illinois Div. of Highways, until Aug. 1918 as Jun. Engr. on surveys and road design; and Res. Engr., on concrete and brick road and some bridge construction; Jan. 1919 to Aug. 1923 Asst. Dist. Engr. on road and bridge construction and design; and since Aug. 1923 Gen. Supt. of day-labor construction, on road and bridge construction. *TT 14.8: P 14.8: RC 13.8: D 3.3.—TT 18.8: P 18.8: RC 13.8: D 3.3.* Refers to B. D. Barker, R. L. Bell, R. R. Benedict, C. M. Hathaway, C. Older, F. T. Sheets, C. M. Slaymaker.

950

(10) **BARNETT, JOHN HENRY**, Magee, Miss. (Age 24. Born Shivers, Miss.) 1929 B. S. in C. E., Miss. A. & M. Coll. *TT 4: P 4.* Refers to M. L. Culley, T. G. Gladney.

951

(5) **BELL, RAYMOND PAGE**, Berryville, Va. Graduating student awarded Virginia Section prize. (Age 25. Born Berryville, Va.) 1929 B. S. in Civ. Eng., Va. Pol. Inst. *TT 4: P 4.* Refers to R. B. H. Begg, A. C. Dunn.

952

(2) **BENEDICT, PAUL CHARLES**, 27 Boylston St., Jamaica Plain, Mass. (Age 22. Born Louisburg, Kans.) 1929 B. S., Univ. of Colo. *TT 4: P 4.*—June to Dec. 1926 with Colorado State Highway Dept., on road building.—April 1927 to Aug. 1928 Rodman, U. S. Bureau of Public Roads. *TT 4: P 4.* Refers to F. R. Dungan, C. L. Eckel.

953

(1) **BERGER, JOHN STEPHEN, Jr.**, 415 East One Hundred Sixty-Second St., Bronx, New York City. (Age 23. Born New York City.) 1929 B. S. in Eng., Manhattan Coll. *TT 4: P 4.* Refers to J. J. Costa, R. N. Spooner.

954

(15) **BETZER, STANLEY IRVIN**, 422 Delaware St., Bartlesville, Okla. (Age 26. Born David City, Nebr.) 1929 B. S. in C. E., Univ. of Nebr. *TT 4: P 4.*—March to Sept. 1925 Rodman, Chicago, Burlington & Quincy R. R. *TT 0.2: SP 0.2.*—Feb. 1929 to date Jun. Engr., Phillips Petroleum Co., mapping field lines and leases for Inventory Dept. *TT 0.3: SP 0.3.—TT 4.5: SP 0.5: P 4.* Refers to C. M. Duff, M. I. Evinger, H. J. Kesner, C. E. Mickey.

955

(8) **BIEDERMAN, WILLIAM HARNS**, 4822 North Winchester Ave., Chicago, Ill. (Age 22. Born Chicago, Ill.) 1929 B. S., Univ. of Ill. *TT 4: P 4.* Refers to H. E. Babbitt, J. J. Doland, W. C. Huntington, T. C. Shedd, J. Vawter.

956

(9) **BOWMAN, KEPLER SHULTZ**, 1357 East Thirty-Eighth St., Indianapolis, Ind. (Age 27. Born Hagerstown, Ind.) 1924 B. S., Purdue Univ. *TT 4: P 4.*—June 1924 to Jan. 1928 with Indiana State Highway Comm., until Jan. 1926 as Project Engr. on construction, in charge of concrete roads (under J. T. Hallett), then Asst. in office, Constr. Dept., taking care of Federal Aid money collections, county aid projects and lettings. *TT 3.5: P 3.5: RC 0.5.*—Jan. 1928 to Feb. 1929 in charge of office, Hayes Constr. Co., Indianapolis, Ind., collections, payments, etc. *TT 1: P 1: RC 1.*—March 1929 to date Sales Engr., Flintkote Roads, Inc., New York City. *TT 0.3: P 0.3: RC 0.3.—TT 8.8: P 8.8: RC 1.8.* Refers to H. L. Bowlby, J. T. Hallett, W. K. Hatt, A. H. Hinkle, W. J. Titus.

957

(14) **BRADY, SAMUEL ARTHUR**, 2110 Battery St., Little Rock, Ark. (Age 35. Born Zahle, Syria.) June to Nov. 1915 Chainman and Rodman, Chicago, Burlington & Quincy R. R. *TT 0.2: SP 0.2.*—Jan. to March 1916 Rodman, Union Pacific R. R. Co. *TT 0.1: SP 0.1.*—April to July 1917 Rodman and Chainman, Santa Fe R. R. *TT 0.2: SP 0.2.*—July 1919 to April 1927 with Missouri State Highway Dept., until June 1920 successively Rodman, Instrumentman, and Computer and Draftsman on plans; July 1921–March 1922 Asst. Project Engr. on construction of gravel and concrete highways; April–Dec. 1922 Project Engr. in charge of construction of state and federal aid gravel projects; and after Jan. 1923 Superv. Maintenance Engr., organizing Maintenance Dept. and in responsible charge of its activities in Div. No. 10. *TT 6.3: SP 0.3: P 6: RC 5: D 1.5.*—July 1924 to June 1927 also City Engr., Sikeston, Mo., preparing plans and estimates for street improvements and making drainage survey.—July 1927 to date with Arkansas Highway Dept., until Oct. 1927 as Div. Maintenance Engr., making flood damage report, estimating damage to road and bridges, then Maintenance Engr., in direct charge of maintenance of state roads and construction of earth and gravel roads in Dist. 7, and since March 1929 Engr. of Maintenance, in charge of maintenance in five districts, and construction in three districts. *TT 2.1: P 2.1: RC 2.1.*—*TT 9: SP 0.9: P 8.1: RC 8.1: D 1.5.* Refers to C. S. Christian, H. E. Frech, H. C. Halley, H. H. Lotter, F. W. Sayers.

958

(14) **CARVER, WILLIAM MATTHEW**, Burchard, Nebr. (Age 28. Born Burchard, Nebr.) 1928 B. Sc. in Civ. Eng., Univ. of Nebr. *TT 4: P 4.*—July 1928 to date Instrumentman, Nebraska Dept. of Public Works. *TT 0.6: SP 0.5: P 0.1: RC 0.1.*—*TT 4.6: SP 0.5: P 4.1: RC 0.1.* Refers to C. M. Duff, M. I. Evinger, R. M. Green, H. J. Kesner, C. E. Mickey.

959

(10) **CLEMENT, EDWARD DAWSON**, Salmons-Clement Co., Charleston, S. C. (Age 41. Born Charleston, S. C.) 1909 B. S., Clemson (S. C.) Agri. Coll. *TT 4: P 4.*—July 1909 to Oct. 1911 Rodman, Chainman and Inspector of pile driving and concrete, Charleston (S. C.) Consolidated Ry., Gas & Elec. Co. *TT 0.6: SP 0.6.*—Oct. 1911 to April 1914 with Charleston Consolidated Ry. & Lighting Co., as Constr. Foreman on power-house foundation and in charge of sea-wall (2 000 ft.) construction, being Asst. to Constr. Engr. *TT 1.9: SP 0.8: P 1.1: RC 1.1: D 1.1.*—April 1914 to April 1917 member of firm, Dawson Eng. Co., in charge of construction of wharves, docks, railroad trestles, concrete bridge piers, etc. *TT 3: P 3: RC 3: D 1.*—April 1917 to Sept. 1919 with U. S. Navy, at torpedo school, Newport, R. I., and Torpedo and Gunnery Officer on destroyers in European waters; finally Senior Lieut.—Feb. 1920 to date organized and at present Pres. of Salmons-Clement Co., Inc., Engrs. and Contrs., Charleston; built concrete piers for steel bridges, designed and built docks in Charleston Harbor, bridges for Marlboro County, S. C.; substructure for Seaboard Air Line R. R. in Florida; concrete bridge for Charleston County; (concrete piers on concrete piles, 45-ft. concrete spans); 2-mile bridge for South Carolina State Highway Dept. (concrete piers to rock, 22-ft. concrete spans on cast in place bents, treated timber trestle approaches). *TT 9: P 9: RC 9: D 9.*—*TT 18.5: SP 1.4: P 17.1: RC 13.1: D 10.* Refers to J. H. Dingle, J. E. Gibson, J. M. Johnson, J. W. Martin, J. L. Parker, B. M. Thomson.

960

(6) **CODER, FREDERIC CARRINGTON**, City-County Bldg., Pittsburgh, Pa. (Age 43. Born Williamsport, Pa.) Registered Engr., State of Pennsylvania. Studied Surveying and Mapping, International Correspondence Schools—1900 to 1902 Rear Sightman, Chainman and Axeman, Susquehanna & New York R. R. *TT 1: P 1.*—1902 to 1903 Chainman, 1906 to 1908 Rodman, and 1916 to 1917 Designer on valuation, some surveys, Pennsylvania R. R. *TT 3: SP 1.5: P 1.5: RC 1.5: D 0.5.*—1904 to 1906 Field Engr. for John B. Otto, Civ. Engr., Williamsport, Pa., surveying, establishing boundary lines, etc. *TT 1: SP 1.*—1908 to 1909 Field Engr., Grand Trunk Pacific Ry., Ft. William, Ont., Canada, laid out and built 13-track terminal yard and buildings, including 1 500 ft. of dock and freight sheds. *TT 1: P 1: RC 1: D 1.*—1909 to 1910 Field Engr., Algoma Central & Hudson Bay R. R., on preliminary, location and topographical survey from Hobon, Ont., to south end of Hudson Bay. *TT 1.5: P 1.5.*—1910 to 1912 Field Engr. for Barnett & Record, Ft. William, on design and construction of government reinforced concrete grain elevator at Port Arthur, Ont. *TT 2.5: P 2.5: RC 1.5: D 1.*—1912 to 1916 Field Engr., Baltimore & Ohio R. R., Pittsburgh, Pa., laid out and built 5 miles of double-track railroad at Smithfield, Pa., including five bridges, 3 miles of double track at Summerset, Pa., with four bridges, in charge of construction and surveys for Western Pennsylvania, West Virginia and Ohio. *TT 4.5: P 4.5: RC 3: D 1.5.*—1917 to 1919 with U. S. Army, as Master Engr., Jun. and Senior Grades, 2d Lieut. and 1st Lieut.,

in France in charge of construction of railroad yards, warehouse, narrow-gauge track and reconstruction of French railroad and bridges, and of roads for 15th U. S. Engrs. *TT 2: P 2: RC 2.*—1919 to 1920 with Flannery Bros. as Designer of treator for extracting gasoline from crude oil. *TT 1: P 1: RC 1: D 1.*—1920 to date Asst. Engr., Asst. Engr. of Design and Div. Engr. of Constr., Bureau of Bridges and Structures, Pittsburgh. *TT 9: P 9: RC 9: D 1.*—*TT 26.5: SP 3.5: P 23: RC 19: D 6.* Refers to W. N. Dambach, S. Eckels, J. Farris, S. L. Fuller, R. H. Lee, N. H. Orr, C. M. Reppert, N. Schein, N. S. Sprague, J. D. Stevenson, C. M. Vetter, W. D. Wiggins.

961

(6) **CORTESE, ANTHONY**, 540 Park Road, Ambridge, Pa. (Age 20. Born Scranton, Pa.) 1929 B. S. in C. E., Lafayette Coll. *TT 4: P 4.*—Summer 1926 Instrumentman, Rodman, Chainman, etc., with Booth & Dickerson, Engrs., Goshen, N. Y. *TT 4: P 4.* Refers to W. S. Lohr, L. Perry, E. H. Rockwell, F. W. Slantz.

962

(13) **COTTON, CECIL RANDOLPH**, 419 Eureka St., Pittsburgh, Pa. (Age 20. Born Hoboken, N. J.) 1929 B. S. in C. E., Carnegie Inst. Tech. *TT 4: P 4.*—June 1929 to date with McClintic-Marshall Constr. Co., Rankin, Pa., 5 weeks as Fitter's Helper in Fabricating Shop, and since then making weight estimates. *TT 0.1: SP 0.1—TT 4.1: SP 0.1: P 4.* Refers to F. J. Evans, P. A. Franklin, F. M. McCullough, W. E. Mott, C. B. Stanton, H. A. Thomas.

963

(10) **CROFOOT, DAVID WILSON**, Rockford, Ala. (Age 27. Born Vandling, Pa.) 1923 A. B., Cornell Univ. *TT 2: P 2.*—Sept. 1923 to June 1924 post graduate student in Civ. Eng., Cornell Univ. *TT 0.5: P 0.5.*—June 1924 to Sept. 1925 Inspector, Pennsylvania Dept. of Highways, inspecting and computing grading, drainage structures and concrete pavement. *TT 0.6: SP 0.6.*—Oct. 1926 to date with Alabama Highway Dept., until June 1926 as Transitman on location surveys and concrete paving, then Res. Engr. in responsible charge of location and construction of state highway (53 miles) and highway bridges. *TT 3.4: SP 0.4: P 3.—TT 6.5: SP 1: P 5.5.* Refers to F. A. Barnes, C. H. Buckius, W. Finnell, H. H. Houk, G. L. Moulton, A. A. Pregler.

964

(4) **CROOKS, JAMES GRAHAM**, 106 South Forty-Second St., Philadelphia, Pa. (Age 20. Born Greenwich, Conn.) 1929 B. Sc. in C. E., Rutgers Univ. *TT 4: P 4.* Refers to H. N. Lendall, E. H. Rockwell.

965

(1) **CROY, ULRIC JEAN**, Winchester House, Old Broad St., London, E. C. 2, England. (Age 36. Born Prague, Bohemia, Czechoslovakia.) 1911 Lieut.-Engr., Mil. Acad. (K. u. K. Militaerakademie), Winer-Neustadt, Austria. 1914 Lieut., Genie Corps, Pol. Inst. of Prague and Vienna.—1913 to 1919 with Genie troops, Austrian Armies, on highway, flood prevention and fortification work. *TT 6: P 6: RC 3.*—1919 to 1920 Liaison Officer to Interallied Coal and Boundary Comms. and Technical Advisors. *TT 1: P 1.*—1920 to 1923 Secy., American Relief Administration in Bohemia and Turkey.—1924 Woods Clerk and Surveyman, Pejepscot Paper Co. of New York, surveying and timber cruising in Quebec, Canada. *TT 0.4: SP 0.4.*—May to Nov. 1925 Surveyor, Pacific Telephone & Telegraph Co. of San Francisco. *TT 0.2: SP 0.2.*—Nov. 1925 to April 1926 Rodman, Southern Pacific Ry. *TT 0.3: SP 0.3.*—May to June 1926 Surveyman, Pacific Gas & Elec. Co. of San Francisco, power-line survey on Mokelumne project. *TT 0.1: SP 0.1.*—June to Oct. 1926 Asst. to Supt., Pacific Fruit Express Co. of San Francisco, on construction of icing platforms in Sparks and Carlin, Nev., and Ogden, Utah. *TT 0.1: SP 0.1.*—Nov. 1926 to Aug. 1927 Inspecting Engr. and Instrumentman, Golden Gate Ferry Co. of San Francisco, on construction of Berkeley causeway and slips. *TT 0.5: SP 0.3: P 0.2.*—Aug. to Oct. 1927 Concrete Inspecting Engr., Feather River Power Co. of San Francisco, on arch dam and lining pressure tunnel, Bucks Creek project. *TT 0.1: SP 0.1.*—Nov. 1927 to May 1928 Inspecting Engr., Sears Point Toll Road Co. of San Francisco, instrument and inspection work on highway construction, being Chf. of Party. *TT 0.3: SP 0.3.*—May 1928 to April 1929 Asst. Engr., American Toll Bridge Co., San Francisco, inspecting production and loading of special rock fill (160 000 tons) for Carquinez Bridge. *TT 0.5: SP 0.5.*—May 1929 to date Service Engr., California Corrugated Culvert Co., West Berkeley, Cal., promotion work in Near East and North Africa; at present taking special course at plant. *TT 0.2: SP 0.2.—TT 9.7: SP 2.5: P 7.2: RC 3.* Refers to G. J. Calder, E. I. Clawiter, D. H. Duncanson, J. H. Meursing, H. E. Squire, R. L. Vaughn, F. G. White.

966

(1) **CUNETTA, JOSEPH**, 551 DeKalb Ave., Brooklyn, N. Y. (Age 23. Born Paterno di Basilicata, Italy.) 1929 C. E., Pol. Inst. of Brooklyn. *TT 4: P 4*.—Summer 1927 Transitman and Computer, City of New York, computations, Street Opening Div., Topographical Bureau, Borough of Queens.—Summer 1928 Draftsman, Corson Constr. Corporation, Brooklyn, N. Y., on subway construction.—*TT 4: P 4*. Refers to H. R. Codwise, H. P. Hammond, E. J. Squire.

967

(10) **CUNNINGHAM, HERBERT WITHERSPOON**, 1331 Pendleton St., Columbia, S. C. (Age 22. Born Bishopville, S. C.) 1929 B. S. in Civ. Eng., Clemson A. & M. Coll. *TT 4: P 4*.—June 1929 to date Draftsman, South Carolina State Highway Dept., Columbia, S. C. *TT 0.1: SP 0.1—TT 4.1: SP 0.1: P 4*. Refers to E. L. Clarke, H. E. Glenn.

968

(6) **CUTLER, RALPH WALDO**, 698 Park Rd., Ambridge, Pa. Graduating student awarded Los Angeles Section prize. (Age 23. Born Berkeley, Cal.) 1928 B. S., and 1929 M. S. in C. E., Cal. Inst. Tech. *TT 4: P 4*.—Aug.-Nov. 1925 and Feb. to Sept. 1926 with Dwight P. Robinson & Co., at smelter, Douglas, Ariz., on office computations and field work, as Chainman, Rodman, Leveler and (after Feb. 1926) also acting as Asst. Cost Engr. *TT 0.3: SP 0.3*.—Summer 1928 Student Engr., and summer 1929 Jun. Highway Engr., Div. of Management, U. S. Bureau of Public Roads, on efficiency studies of highway construction. *TT 0.3: P 0.3*.—Sept. 1928 to June 1929 Teaching Fellow, California Institute of Technology, teaching applied mechanics and strength of materials.—At present with American Bridge Co., Ambridge, Pa. *TT 0.2: P 0.2—TT 4.8: SP 0.3: P 4.5*. Refers to R. R. Martel, W. W. Michael, F. Thomas, W. C. Tiffany.

969

(15) **DAXON, JOHN EDWARD**, Bartlesville, Okla. (Age 22. Born Angora, Nebr.) 1929 B. S. in C. E., Univ. of Nebr. *TT 4: P 4*.—June 1929 to date Engr. on field mapping, Phillips Petroleum Co., Bartlesville, Okla. *TT 0.1: SP 0.1—TT 4.1: SP 0.1: P 4*. Refers to C. M. Duff, M. I. Evinger, H. J. Kesner, C. E. Mickey.

970

(11) **DECKER, ELBERT LEROY**, Wind River, Wyo. (Age 41. Born Paonia, Colo.) 1914 B. S. in Civ. and Irrigation Eng., State Agri. Coll. of Colo. *TT 4: P 4*.—Sept. 1914 to March 1924 with Bureau of Reclamation, until July 1922 on Flathead Project, Montana, on operation and maintenance of irrigation system, successively as Canal Rider and Watermaster (3½ years) and Asst. Engr., in charge of construction and operation and maintenance of project unit of irrigation system (1½ years) and of irrigable and location surveys (2 years) and assisting in investigations and design of Hubbard Dam (about 8 months) and July 1922 to March 1924 Project Engr. in charge of Ft. Peck Project, Mont. *TT 7.8: SP 1.8: P 6: RC 6: D 2.9*.—May 1924 to date Project Engr., U. S. Indian Irrigation Service, in charge of Wind River Project, Wyo. *TT 5.2: P 5.2: RC 5.2: D 5.2—TT 17: SP 1.8: P 15.2: RC 11.2: D 8.1*. Refers to H. D. Comstock, F. T. Crowe, F. C. Emerson, R. Follansbee, W. S. Hanna, R. L. Parshall, W. M. Reed.

971

(13) **ELLIS, MERLE WILSON**, 512 Sixteenth St., Oakland, Cal. (Age 25. Born Oroville, Cal.) Sept. 1923 to April 1925 student in Eng., Univ. of Oregon. *TT 0.5: P 0.5*.—Dec. 1925 to date with East Bay Utility Dist., until May 1927 as Chainman, Rodman, Levelman and Inspector; concrete (tunnel lining), materials, earth classifications (tunnel excavation), surveys, computations and concrete structures (steel pipe line); since May 1927 Computer-Draftsman on power studies, computation power plant design, and drafting. *TT 3.7: P 3.7—TT 4.2: P 4.2*. Refers to H. S. Clyde, W. S. Cone, H. B. Fisher, J. S. Longwell, G. B. Sturgeon.

972

(14) **FAHRENKROG, EUGENE HENRY**, 4550 Adelaide Ave., St. Louis, Mo. Graduating student awarded St. Louis (Mo.) Section Prize. (Age 21. Born Alton, Ill.) 1929 B. S., Washington Univ. *TT 4: P 4*.—Summer 1926 Rodman, and summer 1927 Instrumentman, Board of Public Service, St. Louis, Mo.—*TT 4: P 4*. Refers to E. O. Sweetser, J. L. Van Ornum.

973

(8) **FARRELL, FREDERICK BATHURST**, 7122 Clyde Ave., Chicago, Ill. (Age 21. Born Chicago, Ill.) 1929 B. S. in C. E., Armour Inst. Tech. *TT 4: P 4*.—Summer 1928 Instrumentman, Pennsylvania R. R.—June 1929 to date Jun. Highway Engr., U. S. Bureau of Public Roads, Washington, D. C., on study of unit costs for road construction concrete, etc.) *TT 0.2: SP 0.2—TT 4.2: SP 0.2: P 4*. Refers to J. R. Griffith, R. H. Harrison, A. E. Phillips, R. L. Stevens.

974

(12) **FINNELL, WALTER JAMES**, 4529 South Seventh St., Tacoma, Wash. (Age 32. Born Tacoma, Wash.) Student in Eng., State Coll. of Washington (Sept. 1916 to June 1917) and Univ. of Michigan (Sept. 1919 to June 1920). *TT 1: P 1.*—1918 in military service; commissioned in Officer Training School, U. S. Navy. *TT 0.3: SP 0.3.*—June 1920 to March 1923 Draftsman, Todd Drydock & Constr. Co. *TT 1.4: SP 1.4.*—March 1923 to March 1924 estimating, detailing and general construction, J. E. Bonnell & Son, Tacoma, Wash. *TT 0.5: SP 0.5.*—March 1924 to April 1925 Designer and Plant Engr., Vancouver (Wash.) Plywood Co. *TT 1.1: P 1.1: RC 1.1: D 1.1.*—April 1925 to date Designer and Engr., City of Tacoma, Wash. *TT 4.2: SP 0.2: P 4: RC 2: D 4.*—*TT 8.4: SP 2.3: P 6.1: RC 3.1: D 5.1.* Refers to O. A. Anderson, J. A. Arntson, O. H. Hallberg, C. E. Putnam, B. P. Thomas, M. Yerington.

975

(1) **GARTNER, ABRAHAM ISRAEL**, 118 Ave. C, New York City. (Age 28. Born Jagielnica, Poland-Austria.) 1927 A. B., and 1929 C. E., Coll. of City of N. Y. *TT 4: P 4.* Refers to R. E. Goodwin, F. O. X. McLoughlin.

976

(1) **GHERSAN, THOMAS ANTHONY**, 2441 Twenty-Fourth St., Long Island City, N. Y. (Age 24. Born New York City.) 1928 B. S. in C. E., Cooper Union (Night School). *TT 4: P 4.*—June to Sept. 1925 Asst. in field party, with N. della Fazio, City Surveyor, New York City, field and office work.—Sept. 1925 to date with Board of Transportation, New York City, until Aug. 1926 as Eng. Asst., on inspection, etc., then Jun. Engr., being Chf. of Party computing estimates. *TT 1.2: P 1.2.*—*TT 5.2: P 5.2.* Refers to H. R. Codwise, F. E. Foss, H. Holbrook, G. Morrison, N. Oppenheim.

977

(2) **GILLON, FRANK PATRICK**, 150 Davenport Ave., New Haven, Conn. (Age 21. Born New Haven, Conn.) 1929 B. S., Sheffield Sci. School, Yale Univ. *TT 4: P 4.* Refers to C. T. Bishop, G. M. Keith, R. S. Kirby, P. G. Laurson, J. C. Tracy.

978

(6) **GONANO, LEZELLE**, Box 5, Pageton, W. Va. (Age 23. Born Pageton, W. Va.) 1929 B. S. C. E., W. Va. Univ. *TT 4: P 4.* Refers to L. V. Carpenter, R. P. Davis.

979

(1) **GRANT, HORACE**, 5 Whittier St., East Orange, N. J. (Age 26. Born Washington, D. C.) 1928 B. S., and 1929 C. E., Columbia Univ. *TT 4: P 4.*—Aug. 1923 to Sept. 1924 Inspector and Rodman, City Engr.'s office, East Orange, N. J. *TT 0.6: SP 0.6.*—Feb. 1929 to date Asst. Engr., Empire City Subway Co., Ltd., in charge of conduit construction in Manhattan Borough. *TT 0.5: P 0.5: RC 0.5.*—*TT 5.1: SP 0.6: RC 4.5: D 0.5.* Refers to A. H. Beyer, W. F. Fox, C. I. Walker.

980

(6) **GRIFFITH, DALZELL MELVIN**, 1071 Berg St., Johnstown, Pa. (Age 30. Born Johnstown, Pa.) 1923 B. S., and 1926 M. S., in Civ. Eng., Bucknell Univ. *TT 4: P 4.*—Dec. 1918 to Sept. 1919 Instrumentman with County Surveyor, Cambria County, Pa., on highway location, etc. *TT 0.4: SP 0.4.*—June 1923 to Sept. 1924 and summers 1925 and 1928 Draftsman, Lorain Steel Co., designing street-railway work. *TT 1.7: SP 0.2: P 1.5: D 1.5.*—1924 to 1928 Instructor and Asst. Prof. of Civ. Eng., Bucknell Univ. *TT 3.3: P 3.3: RC 2.4.*—Sept. 1928 to date graduate student, Cornell Univ.—*TT 9.4: SP 0.6: P 8.8: RC 2.4: D 1.5.* Refers to F. A. Barnes, H. E. Bilger, E. N. Burrows, W. Frick, W. B. Jefferis, L. C. Urquhart.

981

(11) **GROVE, GEORGE THOMAS**, 921 North First Ave., Tucson, Ariz. (Age 40. Born Harrisburg, Pa.) 1914 B. S. in Civ. Eng., Bucknell Univ. *TT 4: P 4.*—May 1915 to April 1916 Chainman, Pennsylvania R. R. Co. in charge of field party, designing and drafting on track layouts and on estimates. *TT 0.5: SP 0.5: D 0.5.*—April 1916 to Jan. 1919 with United Fuel Gas Co., Charleston, W. Va., until Aug. 1916 as Draftsman on map work, etc., then experimental work on natural gas gasoline plant, absorption process, and after May 1918 in charge of Meter Dept., on supervision of installation, testing and maintenance of large factory and field meters, also with Gasoline Dept. *TT 2.6: SP 0.2: P 2.4: RC 0.7.*—Nov. 1919 to May 1920 Levelman and Field Draftsman, Pima County Highway Comm., on location. *TT 0.3: SP 0.3.*—May 1920 to Jan. 1921 Asst. Engr., Valuation Dept., Tucson Div., Southern Pacific Co., on valuation reports, also handled leases and agreements covering spur tracks, warehouse sites, joint facilities, etc. *TT 0.3: SP 0.3.*—Nov. 1921 to date with City of Tucson, Ariz., until Jan. 1924 as Office Engr. on design and drafting of street improvement plans, pavement, sewers,

culverts, etc., then Asst. City Engr., and since Oct. 1926 City Engr. *TT 7.7: P 7.7: RC 5.5: D 1.1.—TT 15.4: SP 1.3: P 14.1: RC 6.2: D 1.6.* Refers to S. Child, W. E. Dickinson, P. A. Diehl, C. W. Miller, R. H. Taylor, F. M. Veatch.

982

(9) GROVE, THOMAS AIKEN, 14123 Castalia Ave., Cleveland, Ohio. (Age 27. Born Jewett, Ohio.) 1925 B. S., Wooster Coll. 1929 B. S. in C. E., Case School of Applied Sci. *TT 4: P 4.* Refers to F. H. Neff, W. E. Rice.

983

(1) HARRISON, MANUEL EUGENIO LOPEZ, Avenida Espana 73, San Salvador, Salvador. (Age 34. Born San Salvador, Salvador). 1916 Ing. des Travaux Publics, L'Ecole Speciale des Travaux Publics, Paris, France. Jan. 1917 to March 1919 Engr., Direccion General de Caminos, on maintenance. *TT 2.2: P 2.2.—*March 1919 to Dec. 1922 Engr., Direccion General de Obras Publicas, and in charge of construction of La Libertad to San Salvador highway, engineering and construction, and designing bridges. *TT 3.7: P 3.7: RC 3.7: D 3.7.—*Dec. 1922 to Dec. 1923 private work, plans, surveys, etc. *TT 1: P 1: RC 1.—*Dec. 1923 to Oct. 1924 on vacation and assisted as Representative of Salvador to Pan-American Highway Comm.—Oct. 1924 to date with R. W. Hebard & Co., Inc., until April 1926 as Asst. Supt. on paving and sanitation, San Salvador City, then Supt., Central Zone, Salvador highway contract. *TT 4.9: P 4.9: RC 3.4.—TT 11.8: P 11.8: RC 8.1: D 3.7.* Refers to B. J. Fletcher, M. E. Gilmore, R. C. Hardman, R. W. Hebard, R. L. Klotz, L. F. Whitbeck, W. F. Wirth.

984

(5) HIGH, EDWARD LOUIS, 1916 F. St. N. W., Washington, D. C. (Age 22. Born Butler, Pa.) 1929 B. S. in Civ. Eng., Univ. of Mich. *TT 4: P 4.—*June 1929 to date Jun. Engr., Interstate Commerce Comm., Washington, D. C., on field data relating to railroad valuation. *TT 0.1: SP 0.1.—TT 4.1: SP 0.1: P 4.* Refers to J. H. Cissel, A. J. Decker, W. C. Hoad, R. L. Morrison, R. H. Sherlock, J. S. Worley.

985

(1) HOHENSTEIN, CHARLES HENRY, 194 Clinton Ave., Clifton, N. J. (Age 22. Born Clifton, N. J.) 1929 C. E., Rens. Pol. Inst. *TT 4: P 4.* Refers to E. R. Cary, T. R. Lawson, W. W. Rousseau.

986

(1) HOROWITZ, HYMAN, 421 East Sixty-Fifth St., New York City. (Age 23. Born New York City.) 1928 B. S., and 1929 C. E., Coll. of City of N. Y. *TT 4: P 4.—*Sept. 1928 to Jan. 1929 Field Asst. to Instructor, Coll. of City of New York. *TT 4: P 4.* Refers to R. E. Goodwin, F. O. X. McLoughlin.

987

(6) HORSCHER, HAROLD FREDERICK, 310 Woodland Rd., Sewickley, Pa. Graduating student awarded Spokane Section Prize. (Age 22. Born Ironton, Ohio.) 1929 B. S. in C. E., State Coll. of Wash. *TT 4: P 4.* Refers to H. E. Phelps, M. K. Snyder, O. L. Waller.

988

(4) HOUTMAN, GUSTAVE DESIRE, 14 West Jefferson St., Media, Pa. (Age 35. Born Manville, R. I.) 1916 B. S. in C. E., Brown Univ. *TT 4: P 4.—*July to Dec. 1916 Detailer and Draftsman on structural steel, Phoenix Bridge Co., Phoenixville, Pa. *TT 0.2: SP 0.2.—*Dec. 1916 to April 1917 and July to Dec. 1919 with Warren B. Lewis, Cons. Engr., Providence, R. I., as Draftsman on mill buildings, Designer of steel and concrete and Field Inspector. *TT 0.4: SP 0.4.—*Dec. 1919 to Oct. 1920 with F. P. Sheldon & Co., Mill Engrs., Providence, as Draftsman and Designer of steel and concrete mill buildings. *TT 0.6: SP 0.2: P 0.4: RC 0.2: D 0.2.—*July 1925 to date with Delaware County Engr.'s office, Media, Pa., as Field Engr. and Designing Engr. on bridges. *TT 4: P 4: RC 2: D 2.—TT 9.2: SP 0.8: P 8.4: RC 2.2: D 2.2.* Refers to A. J. Boase, L. S. Bruner, H. Cross, J. E. Hill, A. K. Hohl, S. C. Hollister, C. W. MacCormack.

989

(7) ITANI, SALAHUDDIN, 906 Greenwood Ave., Ann Arbor, Mich. (Age 23. Born Beirut, Syria.) 1928 A. B., Am. Univ. of Beirut, Syria. 1929 B. S. in C. E., Univ. of Mich. *TT 4: P 4.* Refers to W. C. Hoad, H. W. King, R. H. Sherlock, C. O. Wisler, J. S. Worley.

990

(14) IVEY, WILLIAM TOMLINSON, 607 Postal Bldg., Kansas City, Mo. (Age 27. Born Hawkinsville, Ga.) 1924 B. E., Vanderbilt Univ. *TT 4: P 4.—*June 1924 to March 1929 (except Sept. to Dec. 1927) Engr., Alabama Power Co., on hydro-electric power, load-distribution and economic studies, flood-flow estimates and backwater computations, etc. *TT 4.5: P 4.5: RC 2.—*Sept. to Dec. 1927 and March 1929 to date with U. S. Engr. Office, until Dec. 1927 at Chattanooga, Tenn., on survey of Tennessee River and tributaries, on pre-

liminary layouts, lock, dam and powerhouse design, and since March 1929 Asst. Hydro-Elec. Engr., at Kansas City, Mo., in full charge of power investigation on Missouri River and tributaries, involving study of rivers and economic reports, including marketing power. *TT 0.6: P 0.6: RC 0.3.—TT 9.1: P 9.1: RC 2.3.* Refers to F. J. Brown, C. James, J. E. Parker, W. E. Sanford, W. H. Schuerman, C. Voetsch.

991

(9) KAMMER, JOSEPH IVAN, 1020 Temple Bar Bldg., Cincinnati, Ohio. (Age 34. Born Hidaskurt, Hungary.) 1917 C. E., Royal Tech., Univ. of Budapest. *TT 4: P 4.*—Sept. 1917 to Sept. 1921 Engr., Hungarian Govt. Rys., drafting and figuring track layout, acting as Transitman and Supt. *TT 3.5: SP 0.5: P 3: RC 1.8: D 1.*—Feb. to Sept. 1922 Designer with H. Butzer, Engr. and Bldr., Coolsingel, Rotterdam, Holland, on reinforced concrete structures. *TT 0.7: P 0.7: RC 0.7: D 0.7.*—Feb. to Nov. 1925 Designer, New York Edison Co., New York City, on steel and concrete structures. *TT 0.8: P 0.8: RC 0.8: D 0.8.*—April 1926 to Nov. 1927 Draftsman preparing working drawings, successively with E. de Rosa, Archt., Berlinger & Kaufman, Archts. and Engrs., and A. J. Barzaghi, Engr., all of New York City. *TT 1.7: P 1.7: RC 1.7: D 1.7.*—Jan. 1928 to date Designer, Cincinnati (Ohio) Union Terminal Co., on reinforced concrete structures. *TT 1.6: P 1.6: RC 1.6: D 1.6.—TT 12.3: SP 0.5: P 11.8: RC 6.6: D 5.8.* Refers to J. C. V. Christensen, P. Jones, T. H. Niermann, J. E. Root, L. W. Segoe, O. Wells.

992

(12) KARRER, WILFRED LEONARD, Owyhee, Ore. (Age 24. Born Spokane, Wash.) 1929 B. S. in C. E., Univ. of Cal. *TT 4: P 4.*—Dec. 1924 to Aug. 1925 Rodman and Concrete Inspector, Pacific Gas & Elec. Co., on tunnel construction, penstocks and surge-chamber. *TT 0.3: SP 0.3.*—Summer 1927 Field Draftsman, Bureau of Public Roads, San Francisco, Cal.—May 1929 to date Transitman, U. S. Bureau of Reclamation, on dam and tunnel construction and canal location. *TT 0.2: SP 0.2.—TT 4.5: SP 0.5: P 4.* Refers to F. A. Banks, C. A. Betts, C. Derleth, Jr.

993

(2) KIMBALL, WILLIAM PHELPS, South Lyndeboro, N. H. (Age 24. Born Davenport, Iowa.) 1928 B. S. Dartmouth Coll. 1929 C. E., Thayer School of Civ. Eng. *TT 4: P 4.*—Oct. 1923 to March 1924 Timekeeper, Priester Constr. Co., Davenport, Iowa, on time and cost work. *TT 0.2: SP 0.2.*—Summer 1927 Computer with Alvord, Burdick & Howson, Chicago, Ill., on computation, drafting and office work. *TT 4.2: SP 0.2: P 4.* Refers to L. R. Howson, W. H. Kimball, R. R. Marsden, A. P. Richmond, Jr.

994

(5) KOHLI, CHARLES BRICE, 3828 Van Ness St. N. W., Washington, D. C. (Age 21. Born Lima, Ohio.) 1929 B. S. in C. E., Ohio Northern Univ. *TT 4: P 4.*—June 1929 to date Research Asst., American Society of Testing Materials, calibrating cement testing apparatus, testing cement in reference laboratory, Bureau of Standards. *TT 0.2: P 0.2.—TT 4.2: P 4.2.* Refers to G. H. Elbin, A. R. Webb.

995

(6) KUMNICK, FRED WILLIAM, 310 Woodland Road, Sewickley, Pa. (Age 21. Born Chicago, Ill.) 1929 B. S. in C. E., State Coll. of Wash. *TT 4: P 4.* Refers to H. E. Phelps, M. K. Snyder, O. L. Waller.

996

(8) LATIMER, MARION MILLARD, Washington and Des Plaines St., Joliet, Ill. (Age 25. Born Montone, Ind.) 1927 B. S. C. E., Purdue Univ. *TT 4: P 4.*—June 1927 to July 1928 Bldg. Supt., Crowl Constr. Co., Madison, Wis., on fraternity house and club construction. *TT 1.1: P 1.1.*—Aug. 1928 to date Asst. Res. Engr., Illinois Div. of Waterways, Joliet, Ill., on construction of concrete retaining walls, survey of bridges, sewer and water-main location. *TT 1.1: P 1.1.—TT 6.2: P 6.2.* Refers to L. D. Cornish, W. K. Hatt, F. Hendershot, G. E. Lommel, W. M. Smith.

997

(15) LAURENT, RAYMOND JOSEPH, 515 Buchanan St., Lafayette, La. Graduating student awarded Louisiana Section prize. (Age 25. Born New Roads, La.) 1929 B. C. E., La. State Univ. *TT 4: P 4.*—Sept. 1923 to Sept. 1925 Rodman, Eng. Dept., Southern Pacific R. R. *TT 1: SP 1.—TT 5: SP 1: P 4.* Refers to N. E. Lant, B. W. Pegues, C. R. Shaw.

998

(7) LIDDLE, GEORGE FREDERICK, 382 Prospect St., Muskegon, Mich. (Age 28. Born Muskegon, Mich.) Registered Civ. Engr., State of Michigan. 1927 B. S. in Civ. Eng., Univ. of Wis. *TT 4: P 4.*—April 1919 to April 1920 Stakeman, Chalmers, Rodman and Leveler, Muskegon Ry. & Navigation Co. *TT 0.5: SP 0.5.*—April 1920 to Sept. 1922 Asst. County Engr., Muskegon County Road Comm., being Instrumentman, Chf. of Party, and finally in charge of surveys, construction plans, estimates, etc.; summer 1924 Chf. of

Party on concrete pavement construction, same commission. *TT 1.5: SP 1.1: P 0.4: RC 0.4.*—Summer 1923 with L. C. Hanley, C. E., on subdivision, etc.—April to Sept. 1925 in charge of pavement inspection and supervision and sewer inspection, Aug. to Sept. 1926 on topographical survey and pavement inspection, and March 1928 to June 1929 Civ. Engr., in charge of electrification of pumping station, selection and supervision of installation of pumping units and piping and electrical equipment, all for Dept. of Public Works, Mukewago, Mich. *TT 1: P 1: RC 1: D 1.*—March 1927 to March 1928 associated with M. M. Buck, C. E., Muskegon, surveys, plans, specifications, reports on sewers, drains, pavements, etc. *TT 1: P 1: RC 1: D 0.1.*—June 1929 to date in private practice as Civ. Engr.; has charge of construction of joint city and county drain project (estimated cost \$100 000) for Supt. of County Drains. *TT 0.3: P 0.3: RC 0.3.*—*TT 8.3: SP 1.6: P 6.7: RC 2.7: D 1.1.* Refers to R. J. Buck, D. W. Mead, W. S. Syrett, F. E. Turneure, L. F. Van Hagan, C. N. Ward.

999

(1) **McFARLAND, WILLIAM GEORGE LEWIS**, 45 East Seventeenth St., New York City. (Age 38. Born Boston, Mass.) 1910-1911 took courses in structures and in reinforced concrete design, Franklin Union, Boston.—June to Dec. 1918 Asst. Architectural Engr., Navy Dept., Bureau of Constr. and Repair, Washington, D. C., on design of navy yard, comprising buildings, shops, piers, docks, etc. *TT 0.6: P 0.6: RC 0.6: D 0.6.*—July 1908 to date (except June to Dec. 1918) with Purdy & Henderson Co., Cons. Engrs., Boston, first drafting on framing plans and shop drawings, calculations, computing floor and wall loads for column design, checking surveys and column centers, such as Municipal Bldg., New York City, also on detail of beams, columns, girders, trusses, etc.; May 1912 to May 1917 in Montreal (Que.) office, designing steel and reinforced concrete on MacDonald Hotel, Edmonton, Alberta, Maxwellton Apartments and St. Georges Church, Montreal, Regina (Saskatchewan) Hotel, 20-story Royal Bank of Canada, and Union Station, Toronto, etc.; May 1917 to May 1918 at New York Office in responsible charge of designs, investigations in consultant work, redesigns for architects and contractors, designed Church & Dwight warehouse, Syracuse, N. Y., and many other buildings; since Dec. 1918 at Montreal on design of Halifax Ocean terminals, and in New York Office, having had responsible charge of work on Marunouchi Bldg., Tokyo, Japan, New York Curb Exchange, Masonic Temple, Detroit, B. F. Goodrich water-treatment plant, warehouses and tire manufacturing buildings, Akron, Ohio, Montclair, Y. M. C. A., many schools for Starrett & Van Vleck, Archts., in Georgia, North Carolina, New York, New Jersey, etc., National City Bank at Havana, Cuba, in Montreal on design of Canada Cement Building; also on design of department stores, hotels, foundation schemes for 40 Wall St. (68 stories), New York City, post office garage, Brooklyn, N. Y., 25-story Aldred Bldg., Montreal, and at present designing Mount Pleasant High School, Schenectady, N. Y. *TT 18.5: SP 1.9: P 16.6: RC 13.6: D 18.4.*—*TT 19.1: SP 1.9: P 17.2: RC 14.2: D 19.* Refers to R. M. Burkhalter, C. T. Purdy, M. A. Reidy, N. A. Richards, H. V. Spurr.

1000

(6) **McGANN, LEONARD ALOYSIUS**, U. S. Geological Survey, Everett, Pa. (Age 20. Born Zerbe, Pa.) 1929 B. S. in C. E., Villanova Coll. *TT 4: P 4.* Refers to G. H. Shaw, J. J. Sweeney.

1001

(13) **McKINLAY, GERALD**, 6304 Dana St., Oakland, Cal. (Age 36. Born Santa Rosa, Cal.) 1915 B. S., Coll. of C. E., Univ. of Cal. *TT 4: P 4.*—May 1915 to March 1916 Recorder, U. S. Geological Surveys, Sacramento, Cal., on planetable and triangulation parties. *TT 0.4: SP 0.4.*—March 1916 to Aug. 1917 with Standard Oil Co., Richmond, Cal., as Draftsman and Designer on refinery layout, structural and mechanical design and Inspector on construction. *TT 1: SP 0.5: P 0.5: D 0.5.*—March 1919 to March 1920 Constr. Engr., Sutter Basin Co., Sacramento, Cal., on irrigation and reclamation project (55 000 acres) in Sacramento Valley. *TT 1: P 1: RC 1.*—March 1920 to June 1921 Res. Engr. on a private reclamation project at Manteca, Cal. *TT 1.2: P 1.2: RC 1.2.*—June 1921 to June 1922 with Excelsior Water & Power Co., Sacramento, in charge of division of field surveys for hydro-electric project in Nevada County, Cal. *TT 1: P 1: RC 1.*—1923 and 1924 in private practice of civil engineering and surveying, Los Angeles, Cal., on subdivision, street construction, etc. *TT 2: P 2: RC 2.*—Jan. to June 1925 Asst. Chf. Draftsman, California-Oregon Power Co., Medford, Ore., during construction of hydro-electric project on Klamath River (Copeco No. 2). *TT 0.5: P 0.5: RC 0.5.*—June 1925 to June 1926 Hydro-Elec. Designer, Constant Angle Arch Dam Co., San Francisco, Cal., during construction of power project on Feather River (Bucks Creek Project). *TT 1: P 1: D 1.*—June 1926 to March 1927 Field Office Engr., San Joaquin Light & Power Corporation, Fresno, Cal., during construction of hydro-electric project on Kings River, Cal. (Balch Project). *TT 0.8: P 0.8: RC 0.8.*—March to Sept.

1927 with J. B. Platt, Cons. Engr., Santa Rosa, Cal., as Field and Office Engr. preparing plans and superintending construction of concrete highways and street paving. *TT 0.5; P 0.5; RC 0.5.*—March 1929 to date with A. Kempkey, Cons. Engr., San Francisco, in charge of subdivision (residential) of 600-acre tract near Santa Cruz, Cal. *TT 0.4; P 0.4; RC 0.4.*—*TT 13.8; SP 0.9; P 12.9; RC 7.4; D 1.5.* Refers to W. G. Allen, H. K. Fox, R. L. Jones, L. K. Jorgensen, A. Kempkey, O. Speir, Jr.

1002

(13) **McLEAN, JOHN HARRIS**, 1462 Hampshire St., San Francisco, Cal. (Age 27. Born Dundee, Scotland.) 1929 B. S., Coll. of Civ. Eng., Univ. of Cal. *TT 4; P 4.*—Nov. 1918 to May 1919 Timekeeper, San Francisco Shipbuilding Co. *TT 0.2; SP 0.2.*—May 1919 to Feb. 1923 Timekeeper and Estimator, K. E. Parker Co., San Francisco, being Timekeeper and Materialman on building construction; cost investigation and quantity estimates. *TT 1.9; SP 1.9.*—Aug. 1923 to Dec. 1925 and Aug. 1926 to May 1928 Student, Univ. of California.—Feb. to Aug. 1926 Quantity Estimator on building construction with Barrett & Hilp. *TT 0.5; P 0.5.*—May to Aug. 1928 Estimator, Stephenson Constr. Co., on building construction. *TT 0.2; P 0.2.*—Sept. 1928 to Jan. 1929 Detailer of reinforcing steel, Pacific Coast Steel Co., San Francisco. *TT 0.3; P 0.3.*—Feb. to March 1929 Timekeeper and Quantity Checker on highway construction, with L. J. Cohn, San Francisco. *TT 0.1; SP 0.1.*—March 1929 to date Jun. Engr. and Detailer, Concrete Eng. Co., being Reinforcing Steel Designer and Detailer. *TT 0.3; P 0.3; RC 0.3.*—*TT 7.5; SP 2.2; P 5.3; RC 0.3.* Refers to S. T. Harding, G. E. Troxell.

1003

(15) **MANATT, ROWLAND RODNEY**, 1002 Scanlan Bldg., Houston, Tex. (Age 29. Born Brooklyn, Iowa.) 1921 B. S. in Civ. Eng., Iowa State Coll. *TT 4; P 4.*—June 1921 to Feb. 1922 Draftsman, Insley Mfg. Co., Indianapolis, Ind., structural detailing, stress calculations, concrete distributing plant layouts and structural steel erection. *TT 0.3; SP 0.3.*—March 1922 to June 1923 Chf. Engr. for Contr., Mansfield Eng. Co., Indianapolis, on construction of hydro-electric power dam across Tippecanoe River, near Monticello, Ind., until Nov. 1922 being Asst. Engr., then Chf. Engr. in charge of erection of flood gates and power house. *TT 1; SP 0.4; P 0.6; RC 0.6.*—July to Aug. 1923 Supt. of Constr., Bowen Ranch, Queen City, Mo., on concrete tube under levee for outflow of drainage water. *TT 0.2; P 0.2; RC 0.2.*—Sept. 1923 to date with Atlantic, Gulf & Pacific Co., New York City, as Clerk and Engr. on hydraulic dredges and construction jobs, including setting of buoys and ranges, taking soundings and sections, building trestles, laying dredge pipe lines, constructing retaining levees and discharge spillways; from Oct. 1924 to July 1925 Company Representative on construction of dredge (\$750 000), July 1925 to May 1926 in charge of new work investigation in Florida, and since April 1929 in charge of investigations of Mississippi River flood-control work. *TT 4.1; SP 1.9; P 2.2; RC 2.2.*—*TT 9.6; SP 2.6; P 7; RC 3.* Refers to D. D. Barlow, A. H. Fuller, L. T. Gaylord, N. Mansfield, A. Marston, P. B. Miller.

1004

(13) **MARTIN, ANTONIO RODRIGUEZ**, 384 Ward St., San Leandro, Cal. (Age 40. Born San Fernando, Cadiz, Spain.) 1915 Mil. and Civ. Engr., Acad. de Ingenieros, Guadalajara, Spain. *TT 4; P 4.*—Aug. 1915 to Feb. 1919 Engr., City of Alcazarquivir; in command of military service of engineers; work consisted of bridge over Uadrud River (reinforced concrete substructure and steel girders), suspension bridge over Lucus River, water supplies, hospital, permanent military camp, topographical maps, etc., sewer system for city and Military camp, telegraph and telephone system of Alcazarquivir Sector, railroad between Larache and Alcazarquivir, roads, etc. *TT 3.5; P 3.5; RC 3; D 3.*—Feb. 1919 to Jan. 1920 Designer of artillery barracks to Albaceta, Spain; Comandancia Gen. de Ingenieros, Valencia, Spain. *TT 1; P 1; D 0.5.*—Jan. 1920 to date Designer and in charge of construction, until June 1923 successively of aviation fields, Tetuan and Larache, Africa, and Burgos and Seville, Spain, and airdromes at Madrid, Cuatro Vientos and Jetafe, June 1925 to May 1926 of monuments in St. Mary and Mountain View Cemeteries, Oakland, Cal., and since May 1926 of residence in San Leandro, Cal., and on gardening, technical studies, etc., in connection with same. *TT 7.5; P 7.5; RC 7.5; D 7.5.*—*TT 16; P 16; RC 10.5; D 11.* Refers to A. Durant, W. B. McMillan, L. J. Proctor, E. Terredas Ylla, F. M. Thebo.

1005

(10) **MASON, CLYDE PHILIP**, State Highway Dept., Knoxville, Tenn. (Age 24. Born Swan Quarter, N. C.) 1929 B. S. in C. E. and H. E., N. C. State Coll. of Agri. and Eng. *TT 4; P 4.*—1923 to 1927 (vacations) Rodman and Inspector, North Carolina State Highway Comm. and (1927) Inspector, Town of Virginia Beach, Va.—Vacation 1928 and June 1929 to date Draftsman, Tennessee Highway Dept. *TT 0.2; SP 0.2.*—*TT 4.2; SP 0.2; P 4.* Refers to C. M. Lambe, C. L. Mann, W. C. Olsen, H. Tucker.

1006

(9) MILLER, HENRY SAMUEL, Box 260, Frankfort, Ky. (Age 21. Born Westminster, S. C.) 1929 B. S. in C. E., Clemson Agri. and Mech. Coll. TT 4: P 4.—Refers to C. R. Bloxton, E. L. Clarke, H. R. Creal, P. D. Gillham, H. E. Glenn.

1007

(13) MINER, CHARLES JOHN, 689 Nineteenth Ave., San Francisco, Cal. (Age 21. Born San Francisco, Cal.) 1929 B. S., Univ. of Cal. TT 4: P 4.—May 1929 to date in Eng. Dept., Clinton Constr. Co., San Francisco, Cal. TT 0.2: SP 0.2.—TT 4.2: SP 0.2: P 4. Refers to C. Derleth, Jr., B. A. Etcheverry, S. T. Harding, C. G. Hyde.

1008

(11) MOHR, WILLIAM HENRY, 1247 Euclid Ave., Santa Monica, Cal. (Age 23. Born St. Louis, Mo.) 1929 B. S., Cal. Inst. Tech. TT 4: P 4. Refers to R. R. Martel, W. W. Michael, T. E. Stanton, F. Thomas.

1009

(8) MONEY, CLARENCE ALEXANDER, 6059 South Spaulding Ave., Chicago, Ill. (Age 37. Born Chicago, Ill.) 1 year student, Armour Inst. of Technology. TT 0.5: P 0.5.—July 1910 to Aug. 1911 with Link Belt Co., Chicago, Ill., first as Jun. Draftsman, then Draftsman on minor detail work. TT 0.6: SP 0.6.—March 1912 to Jan. 1916 and April 1917 to March 1920 with Jas. Stewart & Co., Chicago, until Jan. 1916 as Designer in Chicago office, designing and checking design of reinforced concrete and structural steel structures, some planning, and in Ft. William, Ont., in charge of two large plants which were being built, after April 1917 Estimator and Designer, Chicago office, checking designs and in charge of department making contract estimates. TT 6.3: SP 0.3: P 6: RC 1: D 3.9.—Jan. 1916 to April 1917 Chf. Engr., Janse Bros., Boomer, Crain & Howe, Chicago, in charge of all engineering, part of time being in charge of field engineering at New Orleans (La.) Port grain elevator. TT 1.2: P 1.2: RC 1.2: D 1.2.—March 1920 to May 1923 Engr., Witherspoon Englar Co., Chicago, principally on field work, being in charge of construction of Dort Motor Car Co.'s plant at Flint, Mich., and of installation of mechanical equipment for grain elevator at South Chicago, for Chicago & North Western Ry.; some designing. TT 3.1: P 3.1: RC 2.4: D 0.7.—Aug. 1911 to March 1912 and May 1923 to date with John S. Metcalf Co., until March 1912 in Chicago and Montreal offices, being Draftsman, on layout work, design drafting, etc., for grain elevators, and since May 1923 Chf. Engr., being in charge of all engineering with considerable field supervision; work handled includes grain elevator and conveyor gallery system for Port of Houston, Tex., grain elevator at Battle Creek, Mich., and new cereal plant at Sydney, Australia, for Kellogg Co., grain elevator, 1 000 000-bu. annex, for Wichita (Kans.) Terminal, and 2 000 000-bu. annex for St. Joseph (Mo.) Public Elevator Co., also grain elevators for Baltimore & Ohio Ry. Co., Baltimore, Md., Santa Fe Ry. Co., Kansas City, Mo., and Goderich (Ont.) Elevator & Transit Co., and traveling marine tower for Sarnia (Ont.) Elevator Co. TT 6.5: SP 0.3: P 6.2: RC 6.2: D 6.2.—TT 18.2: SP 1.2: P 17: RC 10.8: D 12. Refers to I. Cohen, M. E. Crosby, R. P. Durham, D. B. Fegles, M. A. Long, A. Skrede, R. J. Smith.

1010

(15) NEER, DON MORGAN, 4105 Speedway, Austin, Tex. (Age 45. Born Winfield, Kans.) 1908 B. A. in Civ. Eng., Mo. School of Mines. TT 4: P 4.—June 1908 to Jan. 1909 Instrumentman on city work at Winfield, Kans. TT 0.3: SP 0.3.—Feb. to Oct. 1909 in private practice of surveying at Greenriver, Utah. TT 0.6: P 0.6: RC 0.6.—Oct. to Dec. 1909 Levelman on Buel Dam irrigation survey, Greenriver. TT 0.1 SP 0.1.—Feb. to Dec. 1910 Rodman, Atchison, Topeka & Santa Fe Ry. TT 0.4: SP 0.4.—Dec. 1910 to Nov. 1912 Rodman, and Nov. 1912 to June 1913 and Nov. 1916—Aug. 1917 Transitman, Gulf, Colorado & Santa Fe Ry. TT 1.6: SP 1.6.—June 1913 to Nov. 1916 and Aug. 1917 to Feb. 1928 with Missouri, Kansas & Texas R. R., as Transitman (3½ years) Roadmaster (6 years) and Asst. Engr. on line revision (4 months). TT 7.7: SP 1.5: P 6.2: RC 6.2. Feb. 1928 to date Res. Engr. on relocation, Texas Highway Dept., Austin, Tex. TT 1.5: P 1.5: RC 1.5.—TT 16.1: SP 3.8: P 12.3: RC 8.3. Refers to L. B. Bone, G. H. Glichrist, E. G. Harris, T. J. Palm, E. E. Pittman, H. C. Porter, C. A. Thanheiser, M. C. Welborn.

1011

(4) OELSCHLAGER, LESTER PAUL, 234 Mulberry St., Newport, Pa. (Age 22. Born Petersburg, Ohio.) 1929 B. S. in C. E., Carnegie Inst. Tech. TT 4: P 4. Refers to F. M. McCullough, C. B. Stanton, H. A. Thomas.

1012

(10) PARRISH, WILLIAM COLLIER, Rougemont, N. C. (Age 26. Born Rougemont, N. C.) 1929 B. S. in Civ. Eng., N. C. State Coll. of A. and E. TT 4: P 4. Refers to C. L. Mann, H. Tucker.

1013

(4) **PECKWORTH, RALPH HARRIS**, 117 Duncan Ave., Jersey City, N. J. (Age 22. Born Jersey City, N. J.) 1929 C. E., Rens. Pol. Inst. *TT 4: P 4.* Refers to E. R. Cary, L. W. Clark, T. R. Lawson.

1014

(13) **RAY, ELBRIDGE WILLIAM, Jr.**, 934 Third St., Eureka, Cal. (Age 23. Born Lewiston, Idaho.) 1929 B. S. in C. E., Univ. of Cal. *TT 4: P 4.*—Jan. to Sept. 1924 Chainman, California State Highway Comm., on location survey. *TT 0.3: SP 0.3.*—June 1926 to Aug. 1927 Instrumentman, Northwestern Pacific R. R. Co. *TT 0.6: SP 0.6.*—*TT 4.9: SP 0.9: P 4.* Refers to C. Derleth, Jr., F. S. Foote, P. Steenstrup.

1015

(10) **REED, GEORGE LETCHWORTH**, 1101 Hurt Bldg., Atlanta, Ga. (Age 28. Born Olean, N. Y.) Licensed Structural and Highway Engr., State of Florida. 1924 B. S. in Civ. Eng., Univ. of Wis. *TT 4: P 4.*—Summer 1923 Instrumentman, Oliver Iron Mining Co., Hibbing, Miss.—Oct. 1924 to Jan. 1925 Instrumentman with Vaughan Engrs., Boston, Mass., topography and flow-line location, hydro-electric development, Hillsboro, N. H. *TT 0.3: P 0.3: RC 0.3.*—Jan. to Oct. 1925 Designer with Monks & Johnson, Archts. and Engrs., designed steel and reinforced concrete structures for Cleveland News Bldg. and University Club, Boston, Mass., etc. *TT 0.9: P 0.9: RC 0.5: D 0.9.*—Oct. 1925 to Feb. 1927 Mgr. and Secy., United Concrete Products Co., Winter Haven, Fla.; designed and constructed plant for manufacture of stone tile and designed structures for architects. *TT 0.8: SP 0.5: P 0.3.*—Feb. 1927 to date with Portland Cement Association, until July 1929 as Field Engr., being Concrete Technician, Consultant on structural concrete design, Investigator in aggregates and Inspector on concrete, since July 1929 Regional Structural Engr., being Consultant on concrete structures, industrial survey and trade extension. *TT 2.6: P 2.6: RC 2.6: D 0.5.*—*TT 8.6: SP 0.5: P 8.1: RC 3.4: D 1.4.* Refers to F. H. Alcott, C. A. Browne, W. E. Hart, C. S. Nichols, L. G. Schreffler, G. W. Simons, Jr., A. O. Taylor.

1016

(1) **REISS, SIDNEY**, 28 Clinton St., New York City. (Age 23. Born Warsaw, Poland.) 1928 B. S., and 1929 C. E., Coll. of City of N. Y. *TT 4: P 4.*—Summer 1927 Timekeeper and Estimator with H. Champoll, Bronx, N. Y.—Summer 1928 Draftsman and Computer, Maxwell-Spiro Co., Jersey City, N. J.—Feb. to June 1929 Asst. to Instructor in field surveying, Coll. of City of New York. *TT 4: P 4.* Refers to R. E. Goodwin, F. O. X. McLoughlin.

1017

(10) **RICHARDSON, MATHIAS BEALY**, 1331 Pendleton St., Columbia, S. C. (Age 23. Born Pendleton, S. C.) 1929 B. S. in Civ. Eng., Clemson A. & M. Coll. *TT 4: P 4.*—June 1929 to date Draftsman, South Carolina State Highway Dept., Columbia, S. C. *TT 0.1: SP 0.1.*—*TT 4.1: SP 0.1: P 4.* Refers to E. L. Clarke, H. E. Glenn.

1018

(15) **ROUNDS, WILL ARTHUR**, 1802 W. T. Waggoner Bldg., Fort Worth, Tex. (Age 27. Born Fort Worth, Tex.) Sept. 1920 to June 1924 student, Agricultural and Mechanical Coll. of Texas. *TT 1.5: P 1.5.*—June 1924 to Feb. 1925 Chainman, Rodman and Chf. of Party, Ft. Worth & Denver City R. R., Ft. Worth, Tex. *TT 0.5: SP 0.2: P 0.3: RC 0.3.*—Feb. 1925 to Feb. 1926 Instrumentman and Designer, City Eng. Dept., Ft. Worth. *TT 0.7: SP 0.2: P 0.5: D 0.5.*—Feb. 1926 to Feb. 1928 Draftsman and Designer, Marland Oil Co. of Texas, Ft. Worth. *TT 1.5: SP 0.5: P 1: D 1.*—Feb. to Aug. 1928 drafting with Brookes Baker, Ft. Worth. *TT 0.2: SP 0.2.*—Aug. 1928 to Feb. 1929 Chf. Draftsman, Tarrant County Eng. Dept., Ft. Worth. *TT 0.5: P 0.5: RC 0.5: D 0.5.*—Feb. 1929 to date Engr., Continental Oil Co., Ft. Worth. *TT 0.5: P 0.5: RC 0.5: D 0.5.*—*TT 5.5: SP 1.2: P 4.3: RC 1.3: D 2.5.* Refers to W. O. Jones, D. L. Lewis, D. C. Lipscomb, J. T. L. McNew, W. M. Powell, F. E. Richardson, A. H. Woolverton.

1019

(14) **SALMEN, CLIFFORD ROSS**, Sutton, Nebr. (Age 26. Born Sutton, Nebr.) 1929 B. Sc. in C. E., Univ. of Nebr. *TT 4: P 4.*—June 1929 to date Jun. Engr., U. S. Bureau of Public Roads, on road construction cost work. *TT 0.1: SP 0.1.*—*TT 4.1: SP 0.1: P 4.* Refers to C. M. Duff, M. I. Evinger, H. J. Kesner, C. E. Mickey.

1020

(1) **SASSO, JOHN**, 181 Lincoln Road, Brooklyn, N. Y. (Age 21. Born Brooklyn, N. Y.) 1928 B. S., and 1929 C. E., Columbia Univ. *TT 4: P 4.* Refers to A. H. Beyer, J. K. Finch, W. J. Krefeld, C. R. Wyckoff.

1021

(1) **SCANDALE, JAMES SAMUEL**, 23 Albert Street, Plainfield, N. J. (Age 22. Born Old Forge, Pa.) 1929 C. E., Lehigh Univ. TT 4: P 4. Refers to R. J. Fogg, M. O. Fuller, H. G. Payrow, W. W. Wilson.

1022

(5) **SHAH, TAO KANG LINCOLN**, 2012 Wyoming Ave., Washington, D. C. (Age 25. Born New York City.) 1929 C. E., Rens. Pol. Inst. TT 4: P 4. Refers to T. R. Lawson, G. B. Strickler.

1023

(5) **SHOCKLEY, DELL GEORGE**, 3519 Sixteenth St. N. W., Washington, D. C. (Age 23, Born Enid, Okla.) 1929 B. S. in Eng., Okla. Agri. and Mech. Coll. TT 4: P 4. Refers to J. Firth, E. R. Stapley.

1024

(13) **SILVESTRI, JOSEPH PAUL**, 453 Green St., San Francisco, Cal. (Age 21. Born San Francisco, Cal.) 1929 B. A. in Civ. Eng., Leland Stanford, Jr., Univ. TT 4: P 4. Refers to C. Moser, L. B. Reynolds, E. C. Thomas, C. B. Wing.

1025

(11) **SLOVER, JOHN SUTPHEN**, 4430 Tenth Ave., Los Angeles, Cal. (Age 50. Born Colon, Mich.) July 1917 to Jan. 1919 Foreman, Ash Meadows Water Co., Rhyolite, Nev., in charge of irrigation and pipe-line maintenance. TT 1.5: P 1.5: RC 1.5.—Jan. 1919 to July 1921 Mine Supt., Standard Oil Co., mining and shipping filter clay from Death Valley. TT 2.5: P 2.5: RC 2.5.—Oct. 1921 to June 1925 Draftsman and Jun. Civ. Engr., San. Sewer Div., Eng. Dept., Los Angeles, Cal., on design. TT 2.5: SP 0.3: P 2.2: RC 1: D 2.2.—June to Oct. 1925 Sewer Engr., Los Angeles County Surveyor's Office, on sanitary sewer design. TT 0.3: P 0.3: D 0.3.—Oct. 1925 to March 1928 San. Engr., Eng. Dept., Inglewood, Cal., on sanitary sewer design. TT 2.5: P 2.5: RC 2.5: D 2.5.—July to Dec. 1928 Res. Engr., Currie Eng. Co., Azusa, Cal.; Acting City Engr. TT 0.5: P 0.5: RC 0.5.—Dec. 1928 to date San. Engr., Eng. Dept., San Clemente, Cal., on sanitary sewer design. TT 0.6: P 0.6: RC 0.6: D 0.6.—TT 10.4: SP 0.3: P 10.1: RC 8.6: D 5.6. Refers to R. L. Anderson, G. H. Boyd, F. S. Currie, W. F. Foster, W. T. Knowlton, C. R. Sumner.

1026

(4) **SMITH, MORTON SNOWDEN**, Supervisor's Office, Pennsylvania R. R., Lancaster, Pa. (Age 23. Born Hughesville, Pa.) 1929 B. S. in C. E., Pa. State Coll. TT 4: P 4.—Summers 1927 and 1928 Chf. of Party and Asst. to City Engr., Altoona, Pa.—June 1929 to date Asst., Eng. Corps, Pennsylvania R. R., Philadelphia Div. TT 0.2: P 0.2.—TT 4.2: P 4.2. Refers to H. N. Benkert, R. O'Donnell, E. D. Walker.

1027

(9) **SMITH, OSCAR SAMUEL**, 124 Deluxe Apartments, Dayton, Ohio. (Age 22. Born Lansing, Minn.) 1929 B. S., Antioch Coll. TT 4: P 4.—1926 to 1929 (co-operative work) Labor Foreman, Timekeeper, Field Engr., Instrumentman and Cost Accountant, H. R. Blagg Co., Gen. Contrs., Dayton, Ohio.—TT 4: P 4. Refers to A. E. Morgan, P. C. Nash, R. T. Wykoff.

1028

(14) **SORKIN, JOSEPH**, 1219 South Twenty-Fifth St., Lincoln, Nebr. (Age 23. Born Donietz, Tchernigoff, U. S. S. R.) 1929 B. S. in C. E., Univ. of Nebr. TT 4: P 4.—Summer 1928 Draftsman, Woods Bros. Constr. Co., Lincoln, Nebr.—April 1929 to date Bridge Draftsman, Bridge Dept., Nebraska Public Works. TT 0.2: SP 0.2.—TT 4.2: SP 0.2: P 4. Refers to C. M. Duff, M. I. Evinger, H. J. Kesner, C. E. Mickey.

1029

(8) **SOUCEK, JAROMIR JAN**, 1801 Prairie Ave., Chicago, Ill. (Age 28. Born Brno, Czechoslovakia.) 1923 C. E., Tech. Coll. (Univ.), Brno, Czechoslovakia. TT 4: P 4.—May 1925 to May 1927 Asst. Engr. with Hollmann & Babuska, Civ. Engrs., Prague, Czechoslovakia, supervising construction, some design. TT 2: P 2: RC 1.5: D 0.5.—May to Nov. 1927 on structural design, until Oct. 1927 with Granger & Bollenbacher, Archts., then with Leopold J. Mensch, Engr., Chicago, Ill. TT 0.4: P 0.4: D 0.4.—Nov. 1927 to date with Alvord, Burdick & Howson, Engrs., Chicago. TT 1.8: P 1.8: D 1.8.—TT 8.2: P 8.2: RC 1.5: D 2.7. Refers to J. W. Alvord, C. B. Burdick, L. R. Howson, D. H. Maxwell, L. J. Mensch.

1030

(11) **STEINMAN, JOHN JOSEPH**, 1314 Monterey St., San Luis Obispo, Cal. (Age 23. Born Mexico, Mo.) 1929 B. S. in Eng., Univ. of Mo. TT 4: P 4.—June to Dec. 1928 Jun. Highway Engr., Illinois Dept. of Public Works and Bridges, Div. of Highways, 2 months designing culverts, laying grade and computing earthwork, then inspecting and

staking out work. *TT 0.3: SP 0.3.*—June 1929 to date Draftsman, California Dept. of Public Works, Div. of Highways, computing earthwork and right-of-way. *TT 0.1: SP 0.1.*—*TT 4.4: SP 0.4: P 4.* Refers to E. J. McCaustland, H. K. Rubey.

1031

(13) **STOVER, HARVEY DALE**, 2945 Twenty-Seventh St., Sacramento, Cal. (Age 42. Born Upland, Ind.) 1915 B. S. C. E., Univ. of Cal. *TT 4: P 4.*—May to Aug. 1914 Res. Engr. on highway construction, with D. L. Horner, Marion, Ind.—Oct. 1915 to March 1916 Chf., Constr. Survey Party, American Beet Sugar Co., Van Nuys, Cal. *TT 0.4: P 0.4.*—March to Sept. 1916 Instrumentman and Draftsman, Bureau of Water-Works, Los Angeles, Cal. *TT 0.2: SP 0.2.*—Sept. 1916–Dec. 1917 Inspector, California Inspection Rating Bureau. *TT 1.3: P 1.3.*—Jan. 1918 to Jan. 1919 Lieut., Aircraft Armament Sec., Office of Chf. of Ordnance, U. S. Army. *TT 0.5: SP 0.5.*—Jan. 1919 to date with California Highway Comm., Sacramento, Cal., until Feb. 1921 as Draftsman, Dist. III, then Designer (3 years), Chf. Draftsman (3 years) and (2½ years) Designing Engr., Bridge Dept. *TT 10.6: P 10.6: RC 5.5: D 8.5.*—*TT 17.1: SP 0.8: P 16.3: RC 5.5: D 8.5.* Refers to C. E. Andrew, C. Derleth, Jr., F. W. Haselwood, E. Hyatt, R. M. Morton, T. E. Stanton, Jr.

1032

(3) **STREICHER, WILLIAM HAROLD**, 604 Spruce Ave., Niagara Falls, N. Y. Graduating student awarded Dayton Section prize. (Age 22. Born Niagara Falls, N. Y.) 1929 B. S., Antioch Coll. *TT 4: P 4.*—Since 1925 (co-operative work) with Niagara Falls Power Co., as Junior Draftsman (1½ years), Surveyor, acting as Rodman, Chainman and Instrumentman (1 year), Inspector on core-drill operations (over 9 months) and (6 months) Asst. on hydraulic turbine tests, office and field work.—*TT 4: P 4.* Refers to C. S. Bennett, W. B. Bennett, L. S. Bernstein, O. D. Dales, P. C. Nash, A. W. Pierson.

1033

(5) **SUMMERS, FRANK CALHOUN**, 1620 Eye St., N. W., Washington, D. C. (Age 24. Born Beatrice, Nebr.) 1929 B. Sc. in C. E., Univ. of Nebr. *TT 4: P 4.*—Summers 1926–1928 with Nebraska Dept. of Public Works, Bureau of Roads and Bridges, successively as Chainman, Rodman, Inspector of concrete and gravel and Instrumentman.—June 1929 to date Jun. Engr., Valuation Sec., Interstate Commerce Comm. *TT 0.2: SP 0.2.*—*TT 4.2: SP 0.2: P 4.* Refers to R. L. Cochran, C. M. Duff, M. I. Evinger, H. J. Kesner, C. E. Mickey.

1034

(5) **SYLVESTER, HAROLD MacTAVISH**, Lieut. (j. g.), C. E. C., U. S. Navy, Bureau of Yards and Docks, Navy Dept., Washington, D. C. (Age 26. Born Alexandria, La.) 1924 Graduate, U. S. Naval Acad.—June 1927 completed Civ. Eng. course, U. S. Navy Postgraduate School, Annapolis, Md. *TT 4: P 4.*—June 1924 to date with Navy Dept., Washington, D. C., until Oct. 1924 as Jun. Watch-and-Div. Officer on U. S. S. *Florida, Colorado and Arizona*, Oct. 1924 to April 1925 at U. S. Navy Preparatory School for Enlisted Men, San Diego, Cal., in charge of course in algebra, April 1925 to May 1926 Watch Officer, U. S. S. *Moody*, and Watch Officer and Asst. Navigator on U. S. S. *Sapelo*; July 1926 to June 1927 student, Postgraduate School, at present Lieut. (j. g.), Civ. Eng. Corps. *TT 3.7: SP 0.1: P 3.6: RC 1.6.*—*TT 7.7: SP 0.1: P 7.6: RC 1.6.* Refers to G. S. Burrell, G. Church, L. E. Gregory, B. Moreell, I. W. Sylvester, R. E. Thomas, D. C. Webb.

1035

(8) **THAYER, WELLMAN PERRY**, 10339 Hale Ave., Chicago, Ill. (Age 23. Born Norwood, Ohio.) 1929 B. A. in C. E., Stanford Univ. *TT 4: P 4.*—Summers 1925 and 1926 Rodman, Southern Pacific Ry. of Mexico.—Summer 1927 Draftsman with W. N. Thayer, Petroleum Engr.—Summer 1928 Rodman and Transitman, Chanslor-Canfield Midway Oil Co. *TT 4: P 4.* Refers to J. C. L. Fish, C. Moser, L. B. Reynolds, E. C. Thomas, J. B. Wells.

1036

(1) **THOMPSON, WELLS NASH**, 583 Marunouchi Bldg., Tokyo, Japan. (Age 23. Born Adams, Mass.) 1919 B. S., Mass. Agri. Coll. 1921 C. E., Cornell Univ. *TT 4: P 4.*—Feb. 1922 to date with H. K. Ferguson Co., until April 1924 at Cleveland, Ohio, as Designing Engr. on reinforced concrete buildings, etc., then at Tokyo, Japan, 3 years as Asst. Chf. Engr. in charge of design for post-earthquake reconstruction, inspecting and supervising construction, and since April 1927 Mgr., Japan branch office, in charge of sales, engineering and construction of extensive building operations, Tokyo-Yokohama Dist. *TT 7.4: P 7.4: RC 5.3: D 5.6.*—*TT 11.4: P 11.4: RC 5.3: D 5.6.* Refers to A. P. Bursley, H. K. Dimelow, H. S. Jacoby, R. A. McMenimen, J. E. Ostrand, R. E. J. Summers, L. C. Urquhart.

1037

(3) **THURBER, ARNOLD EDWARD**, Boston, N. Y. (Age 20. Born Boston, N. Y.) 1929 B. S. in C. E., Ohio Northern Univ. *TT 4: P 4.*—Summer 1928 and June 1929 to date Jun. Asst. Engr., Grade 1, New York State Dept. of Public Works, Div. of Highways, with stake-out party, instrument work, and acting as Inspector on grade, bridges, culverts, etc., for concrete highway. *TT 0.1: SP 0.1.—TT 4.1: SP 0.1: P 4.* Refers to G. H. Elbin, A. R. Webb.

1038

(10) **TRENHOLM, JOHN BOHUN**, 233 Sunset Ave., Rocky Mount, N. C. (Age 49. Born Columbia, S. C.) May 1899 to March 1900 Rodman, Chalmers and Tapeman, Central of Georgia R. R. *TT 0.4: SP 0.4.*—March 1900 to April 1904 Rodman, Leveler, Transitman, Topographer, Chf. of Field Party and Res. Engr., on surveys and construction, Baltimore & Ohio R. R. *TT 3.1: SP 1: P 2.1: RC 2.1.*—April 1904 to April 1905 Instrumentman, Western Maryland R. R. *TT 0.5: SP 0.5.*—July to Dec. 1905 Asst. Engr., and Dec. 1905 to March 1907 Prin. Asst. Engr., Bolivian National Ry., Bolivia, S. A., in charge of survey parties and of some construction. *TT 1.7: P 1.7: RC 1.7.*—April to July 1905 and March 1907 to date with Atlantic Coast Line R. R. as follows: April to July 1905 and March 1907 to Aug. 1908 Res. Engr., and Aug. 1908 to Feb. 1909 Asst. Engr., on construction; Feb. 1909 to March 1912 Div. Engr. on construction of bridges, including Pee Dee Viaduct, near Florence, S. C., reconstruction of Wadesboro Branch, and building second track at several places; March 1912 to Dec. 1914 Asst. to Chf. Engr. on maintenance and construction, including erection of a crushing plant and development of quarry, since Dec. 1914 Engr., M. of W., First Div., on maintenance of track and structures and some construction. *TT 22.6: P 22.6: RC 22.6: D 17.3.—TT 23.3: SP 1.9: P 26.4: RC 26.4: D 17.3.* Refers to W. D. Faucette, D. W. Gross, E. M. Hastings, M. S. McDanel, J. E. Willoughby.

1039

(15) **TURNER, FRANCIS CUTLER**, 713 East Powell St., Ft. Worth, Tex. (Age 20. Born Dallas, Tex.) 1929 B. S. in C. E., Tex. A. & M. Coll. *TT 4: P 4.* Refers to T. W. Allen, J. T. L. McNew, J. J. Richey.

1040

(10) **TUTAN, GEORGE WASHINGTON**, 925 Euclid Ave. N. E., Atlanta, Ga. (Age 36. Born Savannah, Ga.) 1917 B. S. in C. E., Ga. School Tech. *TT 4: P 4.*—May to Sept., 1917 Asst. Engr., Atlanta, Birmingham & Atlantic R. R., on maintenance. *TT 0.3: P 0.3.*—Sept. 1917 to June 1926 with Central of Georgia Ry. Co., until Jan. 1925 as Asst. Engr. on design and construction of bridges and buildings, then Track Supervisor, on maintenance and construction. *TT 8.1: SP 0.8: P 7.3: RC 5.9: D 2.9.*—June 1926 to date Gen. Supt., Davis Constr. Co., in charge of field and office forces on bridge, paving and general contract work. *TT 3.1: P 3.1: RC 3.1.—TT 15.5: SP 0.8: P 14.7: RC 7.5: D 2.9.* Refers to G. A. Belden, J. J. Gaillard, H. S. Gibboney, J. A. Higgs, Jr., E. S. Humphreys.

1041

(8) **VAN REEKUM, VERNON JOHN**, 3513 McLean Ave., Chicago, Ill. (Age 27. Born Chicago, Ill.) 1929 B. S. in C. E., Ohio Northern Univ. *TT 4: P 4.*—Sept. to Dec. 1918, Feb. to May 1920 and March 1921 to July 1922 with C. N. Roberts, Municipal Engr. and Surveyor, Chicago, Ill., as Rodman, Tracer, Instrumentman, Draftsman and Computer, on surveys, municipal improvement plans, design of small sewer, water and highway systems, calculations, etc. *TT 0.9: SP 0.9.*—Dec. 1918 to Feb. 1920 Chalmers and Tracer, Chicago & Western Indiana R. R. Co. *TT 0.6: SP 0.6.*—May to Dec. 1920 Draftsman, Instrumentman and Inspector with H. L. Emerson, Municipal and Structural Engr., Chicago, drawing survey and subdivision plats and municipal improvement and structural steel and concrete plans and on layout and inspection of municipal improvements. *TT 0.3: SP 0.3.*—Dec. 1920 to March 1921 Rodman and Inspector, Chicago & North Western R. R. Co., Ashland, Wis., assisted in setting line and grade and in inspecting during construction of timber ore dock. *TT 0.2: SP 0.2.*—July 1922 to March 1924 Draftsman and Surveyor, Chicago Surface Lines, on surveys, court exhibits and traffic diagrams, also in charge of field work for same; design of small mechanical railway appliances, small structures and trackwork. *TT 1.3: SP 0.3: P 1: RC 0.7: D 0.2.*—March 1924 to Feb. 1925 Asst. Municipal Engr. with Suhr, Berryman & Peterson, Chicago, designing, calculating and estimating municipal improvements, setting line and grade and making preliminary surveys for municipal structures. *TT 0.9: P 0.9: RC 0.7: D 0.2.*—Sept. 1925 to Jan. 1929 Student, Crane Jr. Coll., Chicago (2 years) and Ohio Northern Univ. (2 years).—Jan. 1929 to date Civ. Engr. and Surveyor with C. N. Roberts and Keith Roberts, Engrs. and Surveyors, Chicago, designing and calculating municipal im-

provements and surveys and in charge of survey party. *TT 0.2: P 0.2: RC 0.2.—TT 8.3: SP 2.3: P 6: RC 1.6: D 0.5.* Refers to G. H. Elbin, G. C. D. Lenth, I. C. Peterson, R. H. Vose, A. R. Webb.

1042

(9) **VAUGHAN, JAMES RUSSELL**, 10 West Sugar St., Mt. Vernon, Ohio. (Age 25. Born Indianapolis, Ind.) 1927 B. S. in Civ. Eng., Case School of Applied Sci. *TT 4: P 4.—*Oct. 1923–Sept. 1924 with Ohio Power Co., Canton, Ohio, on field surveying, transposing and plotting survey notes, checking property ownership, etc. *TT 0.5: SP 0.5.—*Aug. 1927 to date with Mt. Vernon (Ohio) Bridge Co., detailing and checking structural steel for bridges, assisting on design for superstructure and machinery for 345-ft. swing span for Baltimore & Ohio R. R., Baltimore, Md. *TT 1.2: SP 0.9: P 0.3: D 0.2.—TT 5.7: SP 1.4: P 4.3: D 0.2.* Refers to C. G. Conley, J. D. K. Lyman, F. H. Neff, F. L. Plummer, I. M. Wolverton.

1043

(4) **VENTRE, FRED VINCENT**, 902 South Forty-Ninth St., West Philadelphia, Pa. (Age 22. Born Old Forge, Pa.) 1929 C. E., Lehigh Univ. *TT 4: P 4.—*Summer 1928 Chainman, Pennsylvania R. R.—*TT 4: P 4.* Refers to S. A. Becker, R. J. Fogg, M. O. Fuller, H. G. Payrow, E. H. Uhler, W. L. Wilson.

1044

(1) **WEISS, ALEXANDER**, 330 East Eightieth St., New York City. (Age 20. Born New York City.) 1929 B. S. in C. E., Cooper Union Inst. Tech. *TT 4: P 4.—*At present in Estimating Dept., U. S. Eng. Dept., New York City.—*TT 4: P 4.* Refers to F. E. Foss, J. P. J. Williams.

1045

(9) **WEISS, ERNEST ANDREW**, 10013 Madison Ave., Cleveland, Ohio. (Age 44. Born Szerencs, Hungary.) 1908 C. E., Royal Hungarian Joseph Univ. *TT 4: P 4.—*1908 to 1917 with Alfoldy, Briefer & Grossman Eng. Co., Budapest, Hungary, on design and construction of railroads, bridges, tunnels, etc.; as Section Engr. had charge of electric railroad construction, a 690-m. tunnel at Mocseny, and about 12 miles of second track with many culverts and arch bridges, for State Ry., Privigye-Myttrabanya R. R., with heavy retaining walls and a 6 by 110-ft. span viaduct, etc. (detailed statement forwarded with application.) *TT 9: P 9: RC 5: D 6.—*1917 to 1924 in private practice at Miskole, Hungary; handled structural, design and field work. *TT 7: P 7: RC 7: D 7.—*1925 to date with Cleveland Union Terminal Co., detailing piers for Cuyahoga Viaduct, and Sec. A. of Eagle Ave. Viaduct and revising Secs. B and C, designing and detailing wing wall (42 ft. high) of Broadway bridge, Euclid Ave. Traction Station (front abutment wall and tunnel stairway to tracks), checking and designing foundations in station area, detailing, and designing part of East Boulevard Bridge masonry work, with tunnel for two 60-in. water-mains, checking wing walls for Central Ave. Bridge, etc. *TT 4: P 4: RC 1: D 2.—TT 24: P 24: RC 13: D 15.* Refers to D. R. Arnold, Jr., G. T. Corr, F. Feher, F. L. Gorman, H. Kercher, C. P. Marsh, R. E. Petty, T. Werner.

1046

(5) **WEST, PAUL HUBERT**, 3519 Sixteenth St., N. W., Washington, D. C. (Age 23. Born Oklahoma City, Okla.) 1929 B. S. in Civ. Eng., Okla. Agri. and Mech. Coll. *TT 4: P 4.* Refers to J. Firth, E. R. Stapley.

1047

(1) **WHITTAKER, HOWARD JAMES**, 219 Berkeley Ave., Bloomfield, N. J. (Age 25. Born New York City.) 1925 B. S. in C. E., Union Coll. *TT 4: P 4.—*July 1925 to April 1927 Transitman, Topographical Bureau, Borough of Queens, New York City, topographical surveys, line and grade, street layouts. *TT 1.7: P 1.7.—*April 1927 to date Asst. Engr., Essex County (N. J.) Park Comm., since July 1928 in charge of office, park and parkway construction, surveys, grading, drainage, roads, small structures, dams and slab bridges. *TT 2.3: P 2.3: RC 1.—TT 8: P 8: RC 1.* Refers to F. P. McKibben, J. H. Phillips, A. M. Reynolds, H. A. Schaffler, W. C. Taylor.

1048

(15) **WILKERSON, WILLIAM WADSWORTH**, 3517 Normandy St., Dallas, Tex. (Age 27. Born Hearne, Tex.) 1924 B. S. in Civ. Eng., Tex. Agri. and Mech. Coll. *TT 4: P 4.—*Summer 1923 Draftsman and Instrumentman, Harris County Navigation Dist.—Summer 1924 Instrumentman, Inspector and Asst. Engr., Robertson County, on highways.—Aug. 1924 to Feb. 1925 Asst. City Engr., Brady, Tex., on concrete paving and storm sewer work. *TT 0.5: P 0.5: RC 0.5: D 0.5.—*Feb. 1925 to Nov. 1927 with Elrod Eng. Co., until Aug. 1925 as Res. Engr. on brick paving at Snyder, Tex., then in Sweetwater (Tex.) office on water investigations, plans, designs, etc., and after Nov. 1925 Res. Engr. on asphaltic concrete paving at Plano, Tex., supervision, plans, etc. (about 4 months), paving

at Dublin, Tex. (1½ years) and paving and storm sewer, Hearne, Tex. (6 months). *TT 3.4: P 3.4: RC 3.4: D 3.4.*—July to Aug. 1928 Asst. Engr., Nagle, Witt & Rollins Co., Wharton, Tex., on bridge and highway work. *TT 0.2: P 0.2: RC 0.2: D 0.2.*—Sept. to Dec. 1928 Res. Engr. for W. J. Powell, Stamford, Tex., on paving, surveys and plans. *TT 0.3: P 0.3: RC 0.3: D 0.3.*—Dec. 1928 to date Mgr., Paving Dept., Hasle Eng. Co., Dallas, Tex., on surveys, plans, designs and supervision. *TT 0.6: P 0.6: RC 0.6: D 0.6.*—*TT 9: P 9: RC 5: D 5.* Refers to E. A. Burrow, H. E. Elrod, C. L. Hasle, J. T. L. McNew, T. A. Munson, J. M. Nagle, W. J. Powell, J. J. Richey, T. A. Van Amburgh, D. M. Wilson.

1049

(11) **WILKES, ROLLA CLARENCE**, 1326 Barrington Way, Glendale, Cal. (Age 45. Born Folletts, Iowa.) Dec. 1902 Completed one-half sophomore year, Iowa State Coll. *TT 0.5: P 0.5.*—Feb. 1903 to Feb. 1905 Chainman, Transitman and Computer on commercial work, and Dec. 1906 to Feb. 1908 Transitman and Computer on municipal work, with Gardner & Gardner, Seattle, Wash. *TT 1.7: SP 1.7.*—Feb. 1905 to Nov. 1906 Topographer and Draftsman, successively with Alaska Central Ry. and Copper River & North Western Ry. *TT 0.9: SP 0.9.*—April to Aug. 1908 Deputy County Engr., Kitsap County, Wash., on road and street location. *TT 0.4: P 0.4: RC 0.4.*—Aug. 1908 to May 1913 Computer, city of Seattle, 1 year computing, then re-establishing street lines and working out grade plans for hilly districts. *TT 2.5: SP 2.5: D 1.*—May 1913 to April 1917 Gen. Field Engr. and Draftsman with Gardner & Gardner and J. D. Blackwell, Seattle. *TT 3.4: SP 0.5: P 2.9: RC 2: D 0.8.*—April 1917 to Feb. 1921 Surveyor, California Debris Comm., U. S. Engr. Dept., Div. 3, San Francisco, acting as Chf. of field parties, Draftsman and Field Engr. *TT 3.1: SP 0.8: P 2.3: RC 1.*—Feb. 1921 to Nov. 1923 Draftsman, California Highway Comm., Div. 3, Sacramento, Cal., estimates, reports, and some drafting. *TT 2.4: SP 0.4: P 2: RC 0.5: D 0.5.*—Nov. 1923 to Feb. 1925 Office Engr., Colusa County Road Dept., Colusa, Cal., in charge of plans and specifications for and assisting on construction of highway (\$800 000); organized and had charge of testing laboratory. *TT 1.2: P 1.2: RC 1.2: D 1.*—Feb. 1925 to date with County Highway Comm., Los Angeles, on Chevy Chase subdivision, until Jan. 1928 as Asst. Engr., designed or planned location of streets, designed drainage structures and had charge of paving, and since then Engr., in charge of engineering and construction, including planning and locating streets, grades, curbing and paving, plans for water main and sewer; also on Valuation Committee and Engr. for Tract Act Jury, determining desirability, location, etc., of homes or walls erected. *TT 4.5: P 4.5: RC 4.5: D 3.6.*—*TT 20.5: SP 6.7: P 13.8: RC 9.6: D 5.5.* Refers to R. L. Anderson, A. P. Denton, A. L. Ferver, J. F. Johannsen, G. W. Jones, O. A. Piper, C. S. Pope, C. H. Reeves.

1050

(1) **WOLFF, WILLIAM ROBERT**, 332 Rahway Ave., Elizabeth, N. J. (Age 22. Born Roselle, N. J.) 1929 B. S. in C. E., Lafayette Coll. *TT 4: P 4.*—Refers to W. S. Lohr, L. Perry, A. H. Pratt, E. H. Rockwell, W. M. Van Wagner.

FOR TRANSFER

FROM THE GRADE OF ASSOCIATE MEMBER

1051

(12) **JUDD, THOMAS HENRY**, Assoc. M., Box 845, Chelan, Wash. (Elected July 6, 1920.) (Age 40. Born Sprague, Wash.) 1908 B. S., State Coll. of Wash. *TT 4: P 4.*—July 1908 to April 1913 Rodman and Instrumentman, North Coast R. R., Spokane, Wash., and Res. Engr. in charge of construction, Oregon-Washington R. R. & Navigation Co. *TT 4: SP 0.7: P 3.3: RC 3.3.*—April 1913 to Jan. 1914 Engr. in charge of log flume location and construction, with W. D. Starbird, Spokane. *TT 0.8: P 0.8: RC 0.8: D 0.8.*—Jan. to Aug. 1914 Transitman and Res. Engr., Washington State Highway, on construction. *TT 0.5: SP 0.1: P 0.4: RC 0.4.*—Aug. 1914 to May 1916 and Sept. 1916 to May 1917 Instrumentman and Recorder, Interstate Commerce Comm., Div. of Valuation. *TT 1.2: SP 1.2.*—May to Sept. of years 1916 and 1917 with Newton Foster Co., Seattle, as Mgr. of Antimony Mine (1916), and Mgr., dismantling and selling sawmill and logging machinery. *TT 0.4: SP 0.1: P 0.3: RC 0.3: D 0.3.*—Sept. 1917 to Dec. 1918 1st Lieut. and Capt., Engrs., U. S. Army, in Officers' Training Camp and with First Engrs., First Div., A. E. F. *TT 0.6: SP 0.6.*—Feb. to June 1919 Salesman, Arm Co., products, Spokane, selling culvert pipes, etc. *TT 0.1: SP 0.1.*—June to Oct. 1919 Project Engr., Washington State Reclamation Service, on irrigation project. *TT 0.3: P 0.3: RC 0.3.*—Oct. 1919 to Nov. 1920 Field Engr., Columbia Basin Comm., Spokane, on irrigation investiga-

tion. *TT 1.1: P 1.1: D 0.5.*—Nov. 1920 to Aug. 1924 Res. Engr., Skagit River Power Project, Seattle, on hydro-electric construction. *TT 3.7: P 3.7: RC 3.7.*—Aug. 1924 to May 1925 Special Engr., State of Washington, Div. of Hydraulics, on hydraulic investigations. *TT 0.8: P 0.8: D 0.2.*—June to Aug. 1925 Engr. on hydro-electric and irrigation investigations (private work). *TT 0.2: P 0.2: RC 0.2: D 0.2.*—Aug. 1925 to Feb. 1926 member of Land Appraisal Board, U. S. Bureau of Reclamation, Kittitas Project, Ellensburg, Wash. *TT 0.5: P 0.5.*—Feb. 1926 to date Res. Engr., Washington Water Power Co., Chelan Power Project, on hydro-electric construction. *TT 3.4: P 3.4: RC 3.4.—TT 21.6: SP 2.8: P 18.8: RC 12.4: D 2.* Refers to M. Chase, E. H. Collins, V. Gongwer, V. H. Greisser, J. Jacobs, C. R. Moore, A. J. Turner, C. C. Williams.

1052

(10) LEWIS, FRED JUSTIN, Assoc. M., Civ. Eng. Dept., Vanderbilt Univ., Nashville, Tenn. (Elected Nov. 21, 1921.) (Age 38. Born Blandford, Mass.) 1914 B. S. in Civ. Eng., and 1923 C. E., Univ. of Me. 1921 M. S. in Civ. Eng., Pa. State Coll. *TT 4: P 4.*—Sept. 1914 to Sept. 1916 Instructor in Civ. Eng., Pennsylvania State Coll., also Asst. to Borough Engr. on surveys and street and sewer layouts. *TT 2: P 2: RC 2.*—Sept. 1916 to April 1917 Office Engr., Chicago, Burlington & Quincy R. R., Valuation Dept. *TT 0.7: P 0.7.*—April 1917 to Aug. 1918 and Feb. to Sept. 1919 Asst. Engr., Dept. of Streets and Eng., Springfield, Mass., as Office Engr. and later in charge of topographical surveys. *TT 1.8: P 1.8: RC 1.8: D 1.3.*—Sept. 1919 to Sept. 1920 Instructor in, and Sept. 1920 to Sept. 1925 Asst. Prof. of, Civ. Eng., Lehigh Univ.; Sept. 1919 to Sept. 1920 (spare time) Designing Draftsman, Bethlehem Shipbuilding Co.; summers 1920-1921 and 1923-1926 with Berlin Constr. Co., detailing, estimating, checking and designing; summer 1922 Res. Engr., with Cordner & Montague, Springfield, on highway bridge construction. *TT 6: P 6: RC 5: D 1.*—Sept. 1925 to Sept. 1928 Asst. Prof., and Sept. 1928 to date Prof. of Civ. Eng., Vanderbilt Univ. *TT 4: P 4: RC 4.—TT 18.5: P 18.5: RC 12.8: D 2.3.* Refers to S. A. Becker, A. J. Dyer, R. J. Fogg, W. H. Schuerman, E. H. Uhler, W. L. Wilson.

1053

(8) MAXWELL, DONALD HEBARD, Assoc. M., 1417 Hartford Bldg., Chicago, Ill. (Elected Junior April 5, 1910; Assoc. M. April 18, 1916.) (Age 45. Born Berkeley, Cal.) 1908 B. S., Mass. Inst. Tech. *TT 4: P 4.*—March 1909 to 1921 with Alvord & Burdick and 1921 to date Alvord, Burdick & Howson, Engrs., Chicago, Ill., since 1917 being member of firm; work has included surveys, investigations, drafting, designs, specifications, assisting on and making reports for water-works, sewage disposal, flood relief and valuations, in 1909 being Supt. on construction of reinforced concrete envelope, Gary (Ind.) Water Tower (\$16 500); 1910 prepared plans for additions to sewer system and new sewage-disposal plant for South Milwaukee, Wis. (\$22 000), and made field investigations for increased ground-water supply for South Bend, Ind.; 1911 designed a 1 000 000-gal. reinforced concrete low-service reservoir for Baton Rouge (La.) Water-Works, and in 1912 a similar reservoir, pipe-line, etc., for new water-works for La Crosse, Wis., made field investigations and assisted in report on ground-water supply at Oklahoma City, Okla.; 1913-1914 prepared plans and specifications and had general supervision of construction of pumping station improvements (estimated cost \$55 000) for water-works, Richmond, Ind.; and assisted on plans, estimates and report on intercepting sewers and sewage disposal for Racine, Wis., March 1914 reported on sewage-disposal and fire protection for Ravishloe Country Club, Homewood, Ill., Jan.-April 1915 made field investigation and assisted on report of improved water supply for Lawrenceville, Ill.; June-July 1915 prepared plans and specifications for 4 000 000-gal. rapid sand filtration plant for New Albany, Ind.; Aug. 1915 to 1916 establishing stream-gauging stations, making stream measurements, and investigating flood damage in connection with Franklin County Conservancy Dist., Ohio; June-Nov. 1917 and Feb.-Nov. 1918 on cantonment construction, in charge of drafting room and general supervision of field work on water-works sewers, etc., at Camp Grant, Ill., and Camp Las Casas, Porto Rico; work since 1918 includes charge of surveys and field investigations in connection with report, on White County (Ill.) Levee Dist. and on Racine, Bloomington, Ind., Marshalltown, Iowa and Kenilworth and Glencoe, Ill., water-works; also prepared reports on cause of odors, Lake Monona, Madison, Wis., and on Gary (Ind.) sewage disposal; made field investigation and prepared reports on new Cedar Rapids, Iowa, and Flint, Mich. water-works; valuation for Richmond (Ky.) water-works, and general supervision, design and construction of Gary sewage-pumping station (cost approx. \$200 000), Racine water-works intake and filtration plant (cost \$700 000), etc., and similar work in connection with many other projects. *TT 18.8: SP 1.5: P 21.3: RC 15: D 10.—TT 22.8: SP 1.5: P 17.3: RC 15: D 10.* Refers to J. W. Alvord, C. B. Burdick, W. P. Cottingham, L. R. Howson, G. R. Young.

1054

(8) **RICHART, FRANK ERWIN**, Assoc. M., Univ. of Illinois, Urbana, Ill. (Elected Sept. 12, 1921.) (Age 37. Born Lena, Ill.) 1914 B. S., 1915 M. S. in C. E., and 1922 C. E., Univ. of Ill. *TT 4: P 4*.—Summer 1913 Chairman, Illinois Central R. R.—Summer 1914 Fieldman with W. A. Baehr, Chicago, Ill., on valuation of industrial plants.—Aug. 1915 to May 1916 Detailer and Designer, C. F. Massey Co., Chicago, on reinforced concrete bridge slabs, piling, pipe, etc. *TT 0.7: P 0.7: D 0.7*.—May to Sept. 1916 and June to Aug. 1917 Designer and Checker, Concrete Steel Products Co., Chicago, on reinforced concrete building design. *TT 0.5: P 0.5: D 0.5*.—June 1918 to Feb. 1919 Structural Engr., Concrete Ship Sec., Emergency Fleet Corporation, Philadelphia, Pa., on structural laboratory investigations of reinforced concrete. *TT 0.7: P 0.7: RC 0.7*.—Sept. 1916 to June 1918 and Feb. 1919 to date with Dept. of Theoretical and Applied Mechanics, Univ. of Illinois, until June 1918 as Instructor, then Research Asst. (6 months), Research Associate (2 years), Research Asst. Prof. (7 years) and Research Associate Prof. (10 months), on research work in concrete, reinforced concrete, brick, steel, cast iron, etc., tests of structures, and supervision of concrete research laboratory; since 1926 in charge of research work and of graduate teaching in concrete; some structural designs, inspection, tests and reports. *TT 11.8: P 11.8: RC 10.3: D 2*.—*TT 17.7: P 17.7: RC 11: D 3.2*. Refers to D. A. Abrams, M. L. Enger, M. S. Ketchum, A. R. Lord, F. R. McMillan, W. A. Slater, A. N. Talbot.

1055

(1) **RUFF, CHARLES FREDERICK**, Assoc. M., 25 West Forty-Third St., New York City. (Elected Jun. March 7, 1921, Assoc. M. May 19, 1924.) (Age 33. Born Missoula, Mont.) 1920 C. E., Lehigh Univ. *TT 4: P 4*.—Summer 1916 Rodman and Tracer, M. of W. Dept., Pennsylvania R. R.—Summer 1917 Hull Inspector, Pennsylvania Shipbuilding Co., at Gloucester, N. J., checking and expediting material. *TT 0.1: SP 0.1*.—July 1917 to Aug. 1919 Private and Corporal, Co. B, 103d Engrs., 28th Div., A. E. F., topographic survey, reconnaissance, military bridge building, etc. *TT 1: SP 1*.—June 1920 to May 1922 Draftsman, Surveyor and Res. Engr. with Hazen, Whipple & Fuller, New York City, drafting, detailing, designing and in charge of topographic survey and building elevated tank foundations. *TT 1.7: SP 0.1: P 1.6: RC 0.4: D 0.5*.—May 1922 to July 1924 Supt., Water Dept., Long Beach, N. Y., on operation of water-works, Designer and Res. Engr. on addition to electric light and water plant, and Res. Engr. on filter plant. *TT 2.2: P 2.2: RC 2.2: D 1*.—July 1924 to July 1929 Asst. Engr. with Hazen & Whipple, and Hazen, Everett & Pirnie, being Res. Engr. on 3 000 000-gal. filter, 12-in. hydraulic dredge, 2 000 000-gal. standpipe and 20 000 000-gal. filters and pumping stations for West Palm Beach, Fla., Designer of coagulation basins, West Palm Beach, iron-removal plant, Stuart, Fla., supply pipe line, St. Johns, Newfoundland, concrete reservoir and pumping station, Alexandria, Va., slow-sand filters, Superior, Wis., and elevated tank, Des Moines, Iowa; valuation and rate making for W. P. Beach Water Co., Spring Brook Water Co., Wilkesbarre, Pa., Alexandria Water Co., Philadelphia, Reading Coal & Iron Co., Pottsville, Pa., and Rahway Water Dept., miscellaneous designing, investigations and reports. *TT 5: P 5: RC 4: D 1.5*.—July 1929 to date with Malcolm Pirnie, Cons. Engr., New York. *TT 0.1: P 0.1*.—*TT 14.1: SP 1.2: P 12.9: RC 6.6: D 3*. Refers to C. M. Everett, R. J. Fogg, R. J. Harding, A. Hazen, H. G. Payrow, M. Pirnie, R. W. Reynolds, J. R. Tanner.

1056

(8) **VAN NESS, RUSSELL ALGER**, Assoc. M., 1237 Railway Exchange Bldg., Chicago, Ill. (Elected Junior Dec. 6, 1915; Assoc. M. March 7, 1921.) (Age 36. Born McLean, Ill.) 1914 C. E., Ohio Northern Univ. *TT 4: P 4*.—1 year graduate student, Univ. of Washington.—May to Sept. 1913 City Draftsman, Bloomington, Ill., estimates on paving and sewers.—Feb. to May 1915 survey and inspection on small hydraulics, Univ. of Washington, Seattle, Wash. *TT 0.2: P 0.2*.—May 1915 to May 1916 Chairman, U. S. Govt., on railroad valuation, cross-section, computing and recording. *TT 0.5: SP 0.5*.—May 1916 to Feb. 1917 Structural Detailer, American Bridge Co., Gary, Ind., on bridges and mill buildings, 2 months in shops. *TT 0.4: SP 0.4*.—May 1917 to Aug. 1919 2d Lieut., 1st Lieut. and Capt., U. S. Army, being Student and Instructor, Engineer Officers' Training Camp, Regimental Adj., Co. Commander, on barrack construction, maintaining light railways in Meuse-Argonne. *TT 1.7: SP 0.5: P 1.2: RC 1.2*.—Feb. to May 1917 and Aug. 1919 to date with Atchison, Topeka & Santa Fe R. R. Co., as follows: Feb. to May 1917 and Aug. 1919 to March 1921 Bridge Draftsman, at Chicago, on detail and design of bridges and buildings; March 1921 to March 1925 Asst. Engr., Bridge Dept., Chicago, detail, design and inspection of general engineering projects; March 1925 to Feb. 1929 Res. Engr., on construction of railway and highway bridge across Mississippi River at Ft. Madison, Iowa (3 years), and 14-story office building at Amarillo, Tex. (11 months); since Feb. 1929

Bridge Engr., Chicago. *TT 10.1: SP 0.1: P 10: RC 8.3: D 4.—TT 16.9: SP 1.5: P 15.4: RC 9.5: D 4.* Refers to G. J. Bell, M. C. Blanchard, C. M. Buck, F. W. Dencer, G. W. Harris, A. F. Reichmann.

FROM THE GRADE OF AFFILIATE

1057

(1) **GONZALEZ MARTINEZ, ADRIANO**, Affiliate, P. O. Box 1438, San Juan, Porto Rico. (Elected Aug. 30, 1926.) (Age 52. Born Utuado, Porto Rico.) 1928 C. E., Board of Engrs. of Porto Rico.—1902 to 1904 Contr. with Adrien Duffau on construction of railroads, highways and schools in Porto Rico (\$110 000). *TT 2: P 2: RC 1.—1904 to 1905 Asst. on surveys, studies and designs for reconstruction of water-works in Mayaguez, Porto Rico. TT 1: P 1: D 1.—1905 to 1907 building railroads, school houses and highways in Porto Rico (\$60 000). TT 3: P 3: RC 3.—1908-1910 in charge of construction of public works for Porto Rican Govt. (\$200 000). TT 3: P 3: RC 1: D 1.—1911 to 1915 member of firm, Roses & Co., Contrs., Arecibo, Porto Rico, in responsible charge of construction of water-works, houses and bridges, also in charge of woodworking shops and yards (\$170 000); designed coffee warehouses, mechanical laboratory, etc. TT 3: SP 2: P 1: RC 1.—1916 Mgr., Central Bayaney, Arecibo; designed machinery plant. TT 0.5: SP 0.5.—1917 to date Contr., 3 years with Rivera Ferrer, constructing highways, electric lighting plants and public works in Porto Rico (\$500 000) and designed Banco Territorial of Agricola Bldg. and Roses & Co. Bldg.; then built 15 miles of highways, reinforced concrete bridges, public works and buildings, city hall and water-works in Mayaguez, Porto Rico, water-works and electric plant for Arecibo, partly completed Guajataca Dam for Isabela Irrigation Service (cost to date \$400 000); since 1926 laying 30-in. pipe for San Juan water-works (\$284 000); member of firm, Gonzalez y Martinez, Contr. Engrs., constructing Arecibo filtration plant (\$40 000), Morovis water-works (\$27 000), Carretera Cayey-Salinas (\$80 000); member of firm, Gonzalez y Ferrer, Constr. Engrs., constructing water-works, sewer system and street pavements for Santo Domingo City, Dominican Republic (total about \$3 000 000, about \$2 000 000 worth completed). *TT 12: P 12: RC 12: D 8.—TT 24.5: SP 2.5: P 22: RC 18: D 10.* Refers to C. M. Adams, R. R. Casellas, M. Font, A. S. Lucchetti-Otero, R. M. Merriman, W. W. Schlecht.*

FROM THE GRADE OF JUNIOR

1058

(1) **CANALS, JOSE MANUEL**, Jun., P. O. Box 1185, San Juan, Porto Rico. (Elected June 6, 1927.) (Age 29. Born San Juan, Porto Rico.) Certified Civ. Engr., Porto Rico.—Student in Civ. Eng., Villanova Coll. (Sept. 1920 to July 1921) and Cornell Univ. (Sept. 1921 to Feb. 1924). *TT 1.5: P 1.5.—Jan. 1916 to July 1919, and summers 1922 and 1923 Asst. to J. A. Canals, surveying, leveling and estimating fire losses on buildings, and (summers) on design of new water system for San Juan, Porto Rico. TT 1.8: SP 1.8.—July 1919 to Jan. 1920 Asst. to A. M. Martinez, C. E., on construction of San Jorge Church, Santurce, Porto Rico. TT 0.2: SP 0.2.—Feb. to July 1920 Asst. to City Engr., San Juan. TT 0.3: SP 0.3.—Summer 1921 designed 2-story residence.—Feb. 1924 to date Gen. Contr., work included design and construction of seven residences (\$3 200 to \$8 600), and store and office building (\$15 700), construction of two residences (\$11 200 and \$13 750), warehouse (\$10 700) and a city hall (\$9 200), repairs and enlargements to a drug store (\$1 800) and a residence (\$1 400), surveying and subdivision in Hato Rey, San Juan and Martin Pena, Porto Rico, railroad location (4 km.) for Porto Rico Ry., Light & Power Co.; Appraiser and Arbitrator for representatives of various insurance companies on property in Porto Rico, involving over \$962 000 worth of insurance; made plans of sugar centrals for insurance purposes; and (since Aug. 1928) appraised hurricane losses on sugar centrals, etc. (total \$4 000 000 including one of \$268 000) and other small losses. *TT 5.1: SP 0.5: P 4.6: RC 4.6: D 1.—TT 8.9: SP 2.8: P 6.1: RC 4.6: D 1.* Refers to A. Rodriguez, E. Baez Rodriguez, R. R. Casellas, J. V. Davila, J. M. Giles, R. A. Gonzalez, R. J. F. Lucchetti, A. S. Lucchetti-Otero, R. Ramirez, E. Totti y Torres.*

1059

(13) **GERDES, HENRY GEORGE**, Jun., 2204 Poppy Drive, Burlingame, Cal. (Elected Oct. 2, 1922.) (Age 29. Born San Francisco, Cal.) 1922 B. S. in C. E., Univ. of Cal. *TT 4: P 4.—May to Dec. 1922 and Jan. to April 1926 with Fred H. Tibbetts, Cons. Engr., San Francisco, Cal., as Estimator and Designer on irrigation, reclamation and power development, and (after Jan. 1926) Engr., investigating and reporting on hydro-electric power development. TT 0.9: SP 0.1: P 0.8: RC 0.8: D 0.7.—1923 to 1925 Estimator and*

Designer, Standard Oil Co., San Francisco, on tankage, pipe lines, buildings, machinery and evaporation prevention investigation. *TT 3: P 3: RC 1: D 2.*—May 1926 to Oct 1928 Valuation Engr., Loveland Engrs., Inc., San Francisco, investigated and reported on condition and value of water and electric utility properties and proposed developments. *TT 2.5: P 2.5: RC 2: D 0.5.*—Nov.-Dec. 1928 Draftsman and Designer with S. S. Gorman, Cons. Engr., San Francisco, on reinforced concrete building. *TT 0.1: P 0.1: D 0.1.*—Jan.-April 1929 Designer, City of San Francisco, on Hetch Hetchy Water Supply Tunnel and Dam design. *TT 0.3: P 0.3: RC 0.3: D 0.3.*—May 1929 to date Associate Engr., U. S. Engr. Office, First Dist., San Francisco, in charge of river survey and investigation. *TT 0.3: P 0.3: RC 0.3.*—*TT 11.1: SP 0.1: P 11: RC 3.9: D 3.6.* Refers to R. L. Allin, J. M. Evans, C. I. Rhodes, L. W. Stocker, F. H. Tibbetts, R. G. Wadsworth, J. B. Wells.

1060

(4) **HOLLER, ARTHUR FOX**, Jun., 322 Owen Ave., Lansdowne, Pa. (Elected June 19, 1922.) (Age 31. Born Hummelstown, Pa.) Registered Prof. Engr., State of Pennsylvania. 1921 B. S. in C. E., Lafayette Coll. *TT 4: P 4.*—Summer 1920 Laborer, etc., with contractor on construction of reinforced concrete bridge across Swatara Creek at Hummelstown, Pa., laid out lines and grades, etc.—June to Sept. 1921 Field Inspector, Pennsylvania State Highway Dept., inspected part of construction of reinforced concrete highway pavement between Roulette and Coudersport, including subgrading, laying concrete pavement, head walls, etc., acted as Chairman and Rodman on Survey Corps. *TT 0.3: P 0.3.*—Jan. 1922 to May 1923 Res. Engr., Caribbean Eng. & Contr. Corporation, on reclamation of Oropouche Lagoon, Trinidad, British West Indies, reclaimed approx. 5 429 acres of jungle land, including drainage canals, dams, sluice gates, pump houses, etc. *TT 1.3: P 1.3: RC 1.3: D 1.3.*—May to Sept. 1923 Inspector, Thomas E. Murray Co., on construction of Brooklyn Edison Power Plant on East River, Brooklyn, N. Y., covering pile driving, concrete and steel-work. *TT 0.3: P 0.3.*—Sept. 1923 to Nov. 1928 Engr., Standard Oil Co. of New Jersey, being Plant Engr. at Parkersburg (W. Va.) Refinery, Estimator and Constr. Supt., Gen. Eng. Dept., made estimates and supervised construction of various large projects. *TT 5.2: P 5.2: RC 2: D 2.*—Nov. 1928 to date Asst. Mgr., Eastern Branch, Standard Oil Co. of Pennsylvania, in charge of engineering, including estimating, design and construction for erection of bulk plants, warehouses, garages, river terminals and service stations in eastern half of state. *TT 0.8: P 0.8: RC 0.8.*—*TT 12: P 12: RC 4.1: D 3.3.* Refers to F. O. Dufour, G. V. Keely, W. S. Lohr, L. Perry, R. R. Waddington.

1061

(8) **KEATTS, BERNERD DEWEY**, Jun., 1332 Hood Ave., Chicago, Ill. (Elected March 15, 1926.) (Age 31. Born Maroa, Ill.) 1924 B. S. in Civ. Eng., Univ. of Ill. *TT 4: P 4.*—Sept. 1921 to Aug. 1922 Material Checker and Stockroom Keeper for R. Cope, Contr., Decatur, Ill., on construction of \$1 000 000 impounding dam. *TT 0.5: SP 0.5.*—May to Nov. 1924 Jun. Highway Engr., Illinois Dept. of Highways, Road Office, Springfield, Ill., checking and making plans for concrete roads. *TT 0.2: SP 0.2.*—Nov. 1924 to March 1925 Asst. Engr., Illinois Traction, Inc., preparing plans for repairs and new tracks and buildings, surveying, checking bridges for carrying power. *TT 0.2: SP 0.2.*—March 1925 to May 1929 Bridge Inspector and Asst. Engr., Missouri Pacific R. R., inspecting erection of concrete and steel bridges, some bridge design, steel and concrete detailing, and in charge of maintenance of three railway river transfers. *TT 4.2: P 4.2: RC 3.*—May 1929 to date Inspector, Stone & Webster Eng. Corporation, Chicago, inspecting hydro-electric units, transformers, large hoisting engines, electric substation accessories, etc. *TT 0.2: P 0.2: RC 0.2.*—*TT 9.3: SP 0.9: P 8.4: RC 3.2.* Refers to M. H. Doyne, E. A. Hadley, J. S. Hazelton, R. E. Wachter, W. D. P. Warren, C. C. Williams, S. L. Wonson.

1062

(7) **MARTIN, LLOYD LITTELL**, Jun., 719 Gladstone St., Detroit, Mich. (Elected Oct. 8, 1918.) (Age 31. Born Walkkill, N. Y.) 1918 C. E., Rens. Pol. Inst. *TT 4: P 4.*—June to Oct. 1918 and Jan. 1919 to Oct. 1924 with Bethlehem (Pa.) Steel Co., until Feb. 1920 as Structural Draftsman, Estimator and Designer, Bridge and Fabrication Dept., Steelton and Bethlehem, Pa., then Designer of special equipment and Field Timekeeper, Erection Dept., Bethlehem, and after Dec. 1920 Res. Engr., St. Johns River Bridge, Jacksonville, Fla., Baltimore and Ohio R. R. bridge, Foxbury, Pa., arch highway bridge, Cookeysville, Md., Delaware River Bridge, Philadelphia, Pa., and Penn R. R. Bridge, Sunbury, Pa. *TT 4.9: SP 1.1: P 3.8: RC 2.*—Oct. 1924 to Jan. 1925 Res. Engr., Tench Constr. Co., on Bear Mountain Hudson River Bridge. *TT 0.2: P 0.2: RC 0.2.*—Jan. to Sept. 1925 Asst. Engr., Delaware River Bridge Joint Comm., Philadelphia. *TT 0.7: P 0.7.*—Sept. 1925 to Feb. 1926 Contr. Engr., and Feb. to Nov. 1926 Chf. Draftsman, Owego (N. Y.) Bridge & Iron Co. *TT 1.2: P 1.2: RC 1.2.*—Nov. 1926 to date with McClintic Marshall Co., Pottstown (1 year) and Detroit, Mich., until Aug. 1927 as Asst. to Supt. of Erection, then acting as

Supt. of Erection, and since Nov. 1927 Erecting Engr. in charge of design and plan of erection equipment and Engr. in charge of field work, Ambassador Bridge, Detroit, Mich. TT 2.7: P 2.7: RC 1.9: D 0.4.—TT 13.7: SP 1.1: P 12.6: RC 5.3: D 0.4. Refers to M. B. Case, D. S. Gendell, Jr., J. Jones, W. E. Joyce, R. MacMinn, C. H. Mercer, R. Ridgway.

1063

(11) PEARCE, CECIL EDWARD, Jun., 705 South Marengo Ave., Pasadena, Cal. (Elected Nov. 26, 1923.) (Age 31. Born Oroville, Cal.) 1922 B. S. in Civ. Eng., Stanford Univ. TT 4: P 4.—Summer 1918 Rodman, California Debris Comm. and Corps of Engrs.—Summer 1919 Rodman, running transit, California Highway Comm.—Summer 1920 Draftsman, Standard Oil Co., San Francisco, Cal.—April 1921 to Jan. 1922 with City of San Francisco, at Hetch Hetchy Dam, as Transitman, Rodman and (4 months) Chemist on concrete sampling, testing, etc. TT 0.4: SP 0.4.—June 1922 to Feb. 1924 Draftsman and Office Engr., Turlock (Cal.) Irrigation Dist., drafting and design on Don Pedro dam project and irrigation structures. TT 0.8: SP 0.8.—Feb. 1924 to March 1926 Chf. Designing Engr. on Exchequer Project, Merced Irrigation Dist. gravity dam (330 ft. high), power house, spillways and irrigation system. TT 2.1: P 2.1: RC 2.1: D 2.1.—March to Nov. 1926 Asst. Designing Engr., San Joaquin Light & Power Corporation, Fresno, Cal., on design of constant-angle-arch dam, penstock Y-Branch design, etc. TT 0.7: P 0.7: D 0.7.—Nov. 1926 to May 1927 with Feather River Power Co., San Francisco, on detail power-house design. TT 0.4: P 0.4: D 0.4.—May 1927 to June 1928 Designing Engr., Los Angeles County Flood Control Dist. (Prin. Asst. to Chf. Designing Engr.), design of several arch dams, principal stress analysis of San Gabriel dam, assisting on flood-control channels, spillways, hydraulic structures, etc. TT 1.1: P 1.1: RC 1.1: D 1.1.—June 1928 to date Chf. Designing Engr., Pasadena (Cal.) Water Dept., on preliminary designs and cost estimates for bond issue election, gravity dam (375 ft. high), conduit line (17½ miles long), domestic water supply (cost of project \$10 850 000). TT 1: P 1: RC 1: D 1.—TT 10.5: SP 1.2: P 9.3: RC 4.2: D 5.3. Refers to H. K. Fox, L. C. Hill, C. D. Marx, S. B. Morris, F. A. Noetzel, A. J. Wiley.

1064

(4) PONTZ, HARRY ARTHUR, Jun., Fairview Village, Pa. (Elected May 28, 1923.) (Age 30. Born Dwinsk, Russia.) 1922 B. S. in C. E., Univ. of Pa. TT 4: P 4.—Nov. 1917 to July 1918 Rodman and Transitman with Stone & Webster, at Hog Island, Pa., survey work for shipyard construction. TT 0.4: SP 0.4.—Summer 1918 Transitman with Day & Zimmerman, on construction of army terminal at Greenwich, Philadelphia, Pa., survey and layout. TT 0.1: SP 0.1.—Summer 1921 with Philadelphia Elec. Co., on construction of steam lines, ducts, etc., instrument layout work, inspection of materials, etc.—Sept. 1922 to Sept. 1927 with Truscon Steel Co., first as Detailer on reinforced concrete, later on design and estimating, 6 months being responsible for all estimates (½ years). TT 5: P 5: RC 0.5: D 5.—Sept. 1927 to Sept. 1928 with Davis Bros., Inc., Philadelphia, in charge of drafting room on general bar company engineering, including alternate designs on reinforced concrete construction. TT 1: P 1: RC 1: D 1.—Sept. 1928 to date Chf. Estimator, Taylor Davis, Inc., Philadelphia, responsible for estimating reinforcing steel, bar engineering work. TT 1: P 1: RC 1: D 1.—TT 11.5: SP 0.5: P 11: RC 2.5: D 7. Refers to L. M. Allison, H. C. Berry, S. I. Sacks, W. R. Sauter, L. Shaffer.

1065

(1) TOPPING, HOWARD FRANKLIN, Jun., 369 Lexington Ave., New York City. (Elected May 28, 1923.) (Age 29. Born San Francisco, Cal.) 1922 B. S., Coll. of Civ. Eng., Univ. of Cal. TT 4: P 4.—Summer 1920 Surveyor, Standard Oil Co. (Cal.), Richmond, Cal.; Test Engr., calibration of flow meters, still tests.—July 1922 to Dec. 1923 Draftsman and Shop Inspector, American Bridge Co., Gary, Ind., steel detailing, checking and inspecting. TT 0.8: SP 0.8.—Dec. 1923 to June 1927 Asst. Engr., Carquinez Strait Bridge, American Toll Bridge Co., Crockett, Cal., until Feb. 1925 on design of deep piers, caissons and anchoring guide frames, computing and checking triangulation surveys, preparing property maps and descriptions, from Nov. 1924 to Feb. 1926 Inspector on construction of caissons, erection of anchoring guide frames and sinking and construction of deep piers, and after Feb. 1926 in office of Res. Engr., checking steel erection details, compiling erection progress payment estimates, designing and supervising concrete bridge pavement, fog signal and navigation lighting installation, etc. TT 3.4: P 3.4: RC 2.5: D 1.—Jan. 1928 to date with Ralph Modjeski, Cons. Engr., New York City, on bridge designs, preparing preliminary plans and estimates, designing, detailing and checking shop drawings, and checking designs for buildings. TT 1.5: P 1.5: RC 1.5: D 1.5.—TT 9.7: SP 0.8: P 8.9: RC 4: D 2.5. Refers to G. J. Calder, R. E. Davis, F. W. Dencer, C. Derleth, Jr., R. Modjeski, F. E. Washburn, G. B. Woodruff.

1066

(10) **VAN DEN BERG, CORNELIUS, Jr.**, Jun., 3528 Eighth Ave. South, Birmingham, Ala. (Elected Feb. 25, 1924.) (Age 31. Born Assen, Holland.) Sept. 1911 to Feb. 1916 Tracer and Jun. Draftsman, By Product Coke Plant, Fairfield, Ala. TT 0.8: SP 0.8.—Feb. 1916 to Feb. 1917 detail and general designing, American Steel & Wire Co., Fairfield. TT 0.5: SP 0.5.—Feb. to May 1917 and June 1918 to Jan. 1919 detail and general designing on Gorgas steam plant, Alabama Power Co., Birmingham, Ala. TT 0.4: SP 0.4.—May 1917 to June 1918 Asst. Chf. Engr., Gulf States Steel Co., Gadsden, Ala., on design of addition to bar mill. TT 0.5: SP 0.5.—Jan. 1919 to Jan. 1920 Owner, Birmingham Blue Print & Eng. Co., designing and detail work for smaller plant in Birmingham Dist. TT 0.8: SP 0.3: P 0.5: D 0.5.—Jan. 1920 to May 1921 Gen. Mgr., Donaldson Concrete Constr. Co., Birmingham, designing and constructing concrete structures. TT 1.4: P 1.4: D 1.4.—May 1921 to March 1923 Cons. Engr. on design and appraisals of public utilities in Alabama. TT 1.8: P 1.8: D 1.8.—March 1923 to March 1925 Asst. Chf. Engr., Alabama Public Service Comm., Montgomery, Ala., on appraisals of public utility properties, etc. TT 2: P 2: D 2.—March 1925 to Jan. 1927 Asst. to Pres., Jan. 1927 to April 1929 Vice-Pres., and April 1929 to date Pres., Alabama Water Service Co., Birmingham, in charge of design and construction, also (since April 1929) of operations of Company. TT 4.3: P 4.3: RC 4.3: D 4.3.—TT 12.5: SP 2.5: P 10: RC 4.3: D 10. Refers to A. W. Cuddeback, A. C. Decker, J. E. Jagger, R. L. Totten, T. H. Wiggin.

1067

(1) **WADDINGTON, JOHN CROSSLEY**, Jun., Chellow Dene, Barnsley Road, Sheffield, England. (Elected Nov. 21, 1921.) (Age 27. Born Queensbury, Yorkshire, England.) 1922 Associate in Eng., Sheffield Univ. TT 2: P 2.—Oct. 1915 to Oct. 1918 Eng. Asst. with A. Waddington, Engr. and Contr., Sheffield, England, on general structural work for reinforced concrete building. TT 1.5: SP 1.5.—July 1922 to date member of firm, A. Waddington & Son, Civ. Eng. Contrs., having direct control of engineering work; firm has completed contracts for additions and extensions to sewage-disposal works at Laughton (£2 400); sewerage system and disposal works at Wickersley (£3 500) for Rotherham Dist. Council; sludge pumping station at Sheffield (£360) for Elec. Supply Dept., reinforced concrete double span bridge at Rydal Rd., Sheffield (£4 400) for Improvement Surveyor; rebuilding River Don retaining walls (£1 350) for Sheffield Corporation; screening and detritus tanks for Loughborough Corporation (£3 600) reinforced concrete river retaining walls and heavy building foundations for Abbey Glen Laundry, Sheffield (£4 700); main sewerage pumping station for Doncaster Corporation, involving heavy foundations, caissons, piling and retaining walls (£32 000), water-pumping station (£1 800), new water main at Bentley (£5 900), main drainage system for Synthetic Ammonia & Nitrates, Ltd., Stockton-on-Tees, involving tunneling, reinforced concrete piling, steel sheet piled coffer dam in River Tees, extensive excavations (£56 000); intercepting sewer (diameter 4½ ft.) for Folkestone Corporation (£29 000); and intercepting sewers (diameter 5 ft. and 4 ft.) for Manchester Corporation work, consisting of brick sewer (£49 000). TT 7: P 7: RC 7.—TT 10.5: SP 1.5: P 9: RC 7. Refers to A. E. Brook, J. Husband (Applies in accordance with Sec. 1, Art. I of the By-Laws).

1068

(10) **WILDER, ROBERT MARQUIS**, Jun., P. O. Box 143, Boca Raton, Fla. (Elected April 12, 1926). (Age 29. Born Athol, Mass.) 1922 B. S. in C. E., Worcester Pol. Inst. TT 4: P 4.—July 1922 to Dec. 1923 Jun. Engr., Fred T. Ley & Cia, Lima, Peru, designing, estimating and scheduling on building construction; under supervision designed several reinforced concrete buildings, etc. TT 1.2: SP 0.2: P 1: RC 0.2: D 0.8.—Jan to March 1924 Computer, Southern California Edison Co., Los Angeles, Cal., making computations of stresses in long-span transmission lines, involving original charts. TT 0.1: SP 0.1.—March to Aug. 1924 Asst. Structural Engr., Los Angeles Harbor Dept., designing and estimating reinforced concrete and timber wharves and piers. TT 0.5: P 0.5: RC 0.5: D 0.2.—Aug. 1924 to May 1928 with Fred T. Ley & Co., Inc., until Jan. 1927 as Structural Engr., Florida Div., on design of reinforced concrete and high steel buildings, estimating and scheduling, then Asst. Supt. on construction of \$1 000 000 Home for United Brotherhood of Carpenters and Joiners at Lakeland, Fla., and after Nov. 1927 Cuban Representative investigating projects, estimating, etc. TT 3.6: P 3.6: RC 3.6: D 1.—May 1928 to date Executive Supt., Seaboard & Southern Constr. Co., on construction of \$2 000 000 Boca Raton Club, co-ordination of materials, subcontractors, dealings with architects, progress, etc. TT 1.3: P 1.3: RC 1.3: D 0.2.—TT 10.7: SP 0.3: P 10.4: RC 5.6: D 2.2. Refers to F. M. Aguirre, A. W. French, P. P. Furber, E. S. Humphreys, G. P. Morrill, R. E. Spaulding, G. F. D. Trask.

The Board of Direction will consider the applications in this list not less than thirty days after the date of its issue.